

U. S. DEPARTMENT OF COMMERCE

SINCLAIR WEEKS, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

# DAILY RIVER STAGES

Volume XLVI

1950

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# DAILY RIVER STAGES-1950

## INTRODUCTION

This volume, containing the daily river stages for 1950 is the forty-sixth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

## DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XV. 1917	Volume XXVI. 1928	Volume XXXVI. 1938
V. 1893 to 1895	XVI. 1918	XXVII. 1929	XXXVII. 1939
VI. 1896 to 1899	XVII. 1919	XXVIII. 1930	XXXVIII. 1940 and 1941
VII. 1900 to 1904	XVIII. 1920	XXIX. 1931	XXXIX. 1942 and 1943
VIII. 1905 to 1906	XIX. 1921	XXX. 1932	XL. 1944
IX. 1907 to 1908	XX. 1922	XXXI. 1933	XLI. 1945
X. 1909 to 1910	XXI. 1923	XXXII. 1934	XLII. 1946
XI. 1911 to 1912	XXII. 1924	XXXIII. 1935	XLIII. 1947
XII. 1913 to 1914	XXIII. 1925	XXXIV. 1936	XLIV. 1948
XIII. 1915	XXIV. 1926	XXXV. 1937	XLV. 1949
XIV. 1916	XXV. 1927		

Volumes XXXVII to XLVI can be bought from the Superintendent of Documents, Washington, D.C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda" and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Climatological and Hydrologic Services Division -- Merrill Bernard, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.

## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River.
Burlington, Iowa.....	Mississippi River and tributaries, except the Iowa and Skunk Rivers, and the Des Moines River at and above Keosauqua, Iowa, from below Muscatine, Iowa, to but not including Dam No. 24.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo. to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, and Yadkin-Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Sandusky and Scioto Rivers.
Concord, N. H.....	Merrimack River and tributaries.
Dallas, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa and Skunk Rivers and tributaries. Des Moines River and tributaries at and above Keosauqua, Iowa.
Elkins, W. Va.....	Tygart River and tributaries at and above the Tygart River Dam, W. Va.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward to but not including the Klamath River.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries below the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo.....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including



La Crosse, Wis.....	St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
(Cont'd.)	
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
Medford, Oreg.....	Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including Klomath River and tributaries; the Great Basin in Oregon, except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
Portland, Maine.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River; Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah.....	Great Salt Lake basin.
San Antonio, Tex.....	Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Francisco, Calif.....	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.
Tulsa, Okla.....	Arkansas River and tributaries, except the Canadian River, from the Kansas-Oklahoma line to and including Van Buren, Ark.
Vicksburg, Miss.....	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac and Rappahannock Rivers and tributaries.
Wichita, Kans.....	Arkansas River and tributaries in Kansas.



River Forecast Centers

Cincinnati, Ohio.....	Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (Moundsville, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky.
Harrisburg, Pa.....	Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and their tributaries.
Kansas City, Mo.....	Lower Missouri River Forecast Center: Missouri River and tributaries, (except the North Platte and South Platte above North Platte, Nebr.) from below Bismarck, N. Dak., to and including Jefferson City, Mo., and the Marais des Cygnes River in Kansas.
Portland, Oreg.....	North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to and including the Klamath River.
St. Louis, Mo.....	Middle Mississippi River Forecast Center: Mississippi River and tributaries from below Muscatine, Iowa, to and including New Madrid, Mo., the Missouri River and tributaries below Jefferson City, Mo., (except the Marais des Cygnes River in Kansas); the Ohio River and tributaries, below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River).
Tulsa, Okla.....	Arkansas River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado Line, except the Canadian River in New Mexico.

## RIVER STATIONS AND MISCELLANEOUS INFORMATION

(River stations, arranged by drainage areas, and miscellaneous information pertaining thereto)

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM--Continued										
		Years	Feet	Miles	Sq. Miles	Feet	Feet		Feet	
Ohio Basin--Continued										
Franklin, Pa.	Allegheny	46	955.92	126.4	5,952	17	26.0	Feb. 27, 1917		
Parkers Landing, Pa.	do.	66	845.14	85.0	7,671	20	27.1	Mar. 26, 1913	0.1	Sept. 8, 1886
Lock No. 5, Schenley, Pa. (Lower gage)	do.	78	734.50	30.6	9,329	27	45.7	Mar. 18, 1936	11.0	July 19, 1936
Lock No. 4, Natrona, Pa. (Lower gage)	do.	24	724.50	24.2	11,410	24	43.6	do.	8.0	Feb. 27, 1934
Lock No. 3, Acmetonia, Pa. (Lower gage)	do.	16	710.00	14.7	11,517	25	45.2	do.	11.1	July 17, 1936
Elkins, W. Va.	Tygart	32	1,901.65	46.0	2,665	17	16.9	Dec. 16, 1948	4.2	June 27, 1949
Phillippi, W. Va.	do.	32	1,280.55	46.0	916	17	U26.7	Oct. 29, 1937	U0.0	Sept. 29, 1930
Weston, W. Va.	West Fork	48	994.60	69.0	133	17	25.5	June 25, 1950	1.3	June 28, 1936
Confluence, Pa.	Youghiogheny	78	1,302.32	67.0	1,029	12	V21.9	Mar. 29, 1924	V0.7	Sept. 6, 1886
Connellsville, Pa.	do.	43	860.13	45.0	1,326	16	20.3	Mar. 18, 1936	0.1	Sept. 23, 1908
Sutersville, Pa.	do.	33	733.14	13.5	1,715	20				
Lock No. 15, Soult, W. Va. (Lower gage)	Monongahela	47	838.91	124.2	2,437	28	29.4	Jan. 2, 1919	0.7	Dec. 6, 1908
Lock No. 10, Morgantown, W. Va. (Lower gage)	do.	68	785.40	101.5	2,683	24	39.1	July 10, 1888	-0.2	Oct. 5, 1873
Lock No. 7, Greensboro, Pa. (Lower gage)	do.	63	753.00	84.8	4,407	37	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charlestown, Pa. (Lower gage)	do.	65	716.17	41.5	5,213	28	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeenport, Pa.	do.	38	718.25	14.6	7,161	12	28.8	Mar. 18, 1936	0.6	Aug. 14, 1944
Sharpsville, Pa.	Sbenango	12	862.19	26.0	588	10				
Beaver Falls, Pa.	Beaver	43	727.48	5.5	3,106	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Newcomertown, Ohio	Tuscarawas	23	780.00	21.1	2,436		W21.2	Aug. 9, 1935	2.5	Aug. 15-16, 1944
Lock No. 10, Zanesville, Ohio	Muskingum	60	665.30	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Lock No. 7, McConnelsville, Ohio	do.	38	835.00	48.2	7,411	22	49.1	do.	3.4	Oct. 9, 1916
Lock No. 3, Lowell, Ohio	do.	22	588.10	13.9	7,978	25	32.5	Mar. 7, 1945	5.8	Aug. 12, 1930
Glenville, W. Va.	Little Kanawha	60	697.79	103.0	3,613	18	36.6	Nov. 16, 1926	-0.5	Nov. 10, 1908
Canton, W. Va.	do.	50	621.71	48.0	1,214	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Athens, Ohio	Rocking	35	615.59	31.6	844	17	23.0	Mar. 7, 1945	2.0	Aug. 13, 1941
Camden on Gauley, W. Va.	Gauley	35	2,003.28	71.0	238	23	18.2	June 27, 1940	0.9	Aug. 5-6, 1944
Galax, Va.	New	9	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	0.56	July 9, 1930
Radford, Va.	do.	55	1,712.36	145.0	2,761	14	36.0	do.	-2.0	Nov. 3, 1904
Glenlyn, Va.	do.	25	1,489.76	95.0	3,859	15	27.5	do.	0.1	Sept. 29, 1926
Hinton, W. Va.	do.	64	1,356.44	63.4	6,288	14	20.2	Sept. 13, 1878	0.4	Sept. 12, 1944
Clay, W. Va.	Elk	36	876.60	53.2	1,016	18	33.7	Mar. 14, 1916	0.1	July 27, 1936
Kanawha Falls, W. Va.	Kanawha	37	823.20	95.0	6,415	24	30.9	Aug. 15, 1940	-0.9	Oct. 29, 1921
London Dam, London, W. Va.	do.	17	581.00	82.8	8,552	43	40.0	do.		
Charleston, W. Va.	do.	78	558.65	58.4	10,495	34	41.6	Sept. 14, 1878	-0.1	Sept. 15, 1881
Logan, W. Va.	Guyandot	29	639.08	81.4	859	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923
Kermit, W. Va.	Tug Fork	20	574.77	35.0	1,268	38	38.8	Jan. 29, 1918	1.4	Oct. 4, 1920
Pikeville, Ky.	Lewins Fork	43	633.03	88.5	1,225	36	48.5	Mar. 23, 1929	0.5	Oct. 6, 1941
Paintsville, Ky.	do.	23	566.84	38.5		40	42.15	Feb. 4, 1939	1.06	July 23, 1930
Louisa, Ky.	Big Sandy	62	516.46	26.6	3,821	45	48.0	Feb. 5, 1939	0.7	Nov. 18, 1884
Delaware, Ohio	Orientangy	41	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921
La Rue, Ohio	Scioto	35	910.19	196.5	11	15.0	Mar. 20, 1927	1.8	June 5, 1941	
Prospect, Ohio	do.	44	891.72	172.2	554	10	15.0	Mar. 22, 1927	0.2	Oct. 2, 1910
Columbus, Ohio	do.	53	700.03	131.9	1,613	22	M22.9	Mar. 25, 1913	-0.8	July 27, 1923
Circleville, Ohio	do.	39	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.7	Aug. 13, 1944
Chillicothe, Ohio	do.	43	594.02	70.4	3,847	16	39.8	do.	0.85	Sept. 27, 1944
Pikeston, Ohio	do.	8	533.52	35.0	5,824	15	27.8	Mar. 7, 1945	0.6	Dec. 22, 1944
Kings Mills, Ohio	Little Miami	26	587.10	28.1	1,048	17	33.7	Mar. 26, 1913	0.5	July 3, 1914
Cynthiana, Ky.	South Fork	34	688.52	46.0	641	20	23.32	Apr. 13, 1948	0.5	June 15, 1936
Farmers, Ky.	Licking	35	646.55	172.0	J826	25	31.1	Feb. 9, 1918	1.0	July 13-14, 1945
Falmouth, Ky.	do.	64	511.16	51.2	2,267	28	41.6	Apr. 14, 1948	-0.1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	35	846.55	29.2	502	13	17.5	Jan. 15, 1937	0.6	July 26, 1941
Brookville, Ind.	Whitewater	33	595.73	27.0	1,230	20	25.6	Feb. 26, 1929	0.1	Sept. 25-26, 1941
Sidney, Ohio	Miami	32	924.65	134.8	545	12	14.2	Mar. 21, 1927	-0.2	Sept. 23, 1940
Piqua, Ohio	do.	40	844.00	122.1	850	17	29.1	Mar. 25, 1913	0.7	Sept. 17, 1941
Tipp City, Ohio	do.	28	786.77	104.5	955	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941
Dayton, Ohio	do.	58	721.01	84.5	3,315	23	31.7	Mar. 25, 1913	-0.1	Sept. 28, 1941
Miamisburg, Ohio	do.	28	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1939
Franklin, Ohio	do.	28	658.41	61.3	2,731	16	16.7	do.	0.0	Nov. 5, 1944
Middletown, Ohio	do.	28	626.00	53.6	3,162	14	17.5	Feb. 27, 1929		
Hamilton, Ohio	do.	41	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	26	837.57	96.0	442	20	33.8	May 30, 1927	-0.4	Aug. 1-8, 1925
Jackman, Ky.	do.	23	697.67	46.0	1,105	29	43.1	Feb. 4, 1939	0.3	Aug. 14-17, 1944
Lock No. 14, Heidelberg, Ky.	Kentucky	34	627.20	249.3	2,639	30	35.6	do.	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do.	45	556.80	176.3	3,948	30	35.1	Mar. 29, 1913	9.0	Aug. 9-14, 1944
Lock No. 7, Highbridge, Ky.	do.	50	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 22, 1912
Lock No. 4, Frankfort, Ky.	do.	65	622.12	65.0	3,296	31	47.6	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	27	409.83	37.6	1,870	28	X40.7	Jan. 23, 1937	X0.0	Oct. 18, 1923
Dundee, Ky.	Rough	11	393.18	62.5	752	25	29.0	Jan. 14, 1950		
Munfordville, Ky.	Green	26	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do.	34	403.28	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	52	373.80	149.5	5,446	33	59.0	do.	5.0	Sept. 17, 1902
Lock No. 2, Runney, Ky.	do.	52	343.64	62.8	7,681	34	54.4	Jan. 31, 1937	3.7	July 28, 1902
Anderson, Ind.	West Fork	40	825.02	242.6	J412	10	22.9	Mar. 25, 1913	3.8	June 19, 1918
Noblesville, Ind.	do.	37	738.18	215.1	J845	14	20.1	May 19, 1943	3.0	Aug. 29, 1914
Indianapolis, Ind.	do.	40	672.92	185.3	J1,620	12	29.5	Mar. 26, 1913	2.0	Sept. 17, 1941
Spencer, Ind.	do.	25	526.04		2,980	14	23.2	Jan. 16, 1937	0.9	Oct. 1, 1941
Kilbuck, Ind.	do.	43	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.3	Oct. 22-Nov. 5, 1944
Edwardsport, Ind.	do.	28	433.20	32.6	J5,000	12	26.3	Jan. 8, 1950	1.7	Jan. 2, 1945
Seymour, Ind.	East Fork	28	550.67	187.6	J2,340	14	19.7	Jan. 5, 1949	0.3	Aug. 22, 1936
Williams, Ind.	do.	30	472.56	79.2	J4,690	10	25.0	Mar. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do.	43	442.25	56.0	J4,940	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.	White	16	400.00	47.8	J1,100	16	28.1	Jan. 21, 1937	0.0	Sept. 15, 1936
Bluffton, Ind.	Wabash	40	793.01	421.8	J1,470	10	20.0	Mar. 26, 1913	0.2	July 26, 1934
Wabash, Ind.	do.	28	642.66	376.6	J1,870	12	24.2	May 18, 1943	1.7	Aug. 9, 1934
Peru, Ind.	do.	6	622.73	362.4	2,660	20	22.6	Jan. 5, 1950		
Logansport, Ind.	do.	33	573.28	343.2	J3,760	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do.	37	504.14	301.4	J7,230	11	28.4	May 19, 1943	0.3	Sept. 25, 1941
Covington, Ind.	do.	24	473.97	260.5	J8,230	16	32.4	May 20, 1943	1.2	Oct. 5, 1928
Terre Haute, Ind.	do.	52	445.78	204.4	J12,200	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Riverton, Ind.	do.	12								



# MISSISSIPPI SYSTEM--OHIO BASIN

102

WABASH RIVER AT LA FAYETTE, IND.  
GAGE ZERO, 504.14 FEET; M.S.L. FLOOD STAGE, 11 FEET.

1950	Day of month																															Highest or crest	Date	Lowest	Date
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
JAN	7.7	8.0	8.7	16.5	23.7	29.3	24.6	22.4	19.7	17.9	20.2	21.2	20.9	21.0	20.9	21.2	21.4	20.6	18.6	16.4	13.0	10.7	9.3	9.3	15.3	18.6	20.5	20.6	20.4	18.8	16.4	K 25.4	6	6.7	3
FEB	13.3	10.7	9.1	8.1	7.4	7.2	7.0	7.3	9.1	13.8	15.3	14.6	13.1	11.0	21.3	22.3	22.4	21.2	19.2	16.1	12.9	11.1	10.4	9.6	9.1	7.5	7.0	7.2	17.2	L 22.5	10	7.0	27		
MAR	9.8	11.6	9.5	8.6	7.9	8.6	9.8	10.0	11.0	10.1	8.5	8.5	11.7	11.6	9.9	8.9	8.8	11.4	13.7	13.1	10.9	10.8	12.2	11.8	10.5	9.2	9.0	15.6	18.3	18.4	17.2	M 18.5	29	7.9	5
APR	15.1	12.4	11.2	14.2	19.9	20.6	20.0	17.9	15.7	13.8	15.3	17.2	16.6	14.6	12.5	10.9	9.7	8.9	8.0	7.8	7.3	7.0	6.9	11.6	15.4	16.1	13.8	11.0	8.9	8.4	N 20.8	6	6.9	23	
MAY	8.6	10.0	10.3	8.6	7.8	6.7	6.2	5.8	5.2	5.2	5.0	4.6	4.5	4.5	4.2	4.2	4.0	4.0	3.8	3.6	3.5	3.5	3.7	3.9	4.2	4.1	4.1	4.1	3.7	3.5	3.5	O 11.3	2+	3.5	21+
JUN	3.5	3.3	3.2	3.7	3.3	3.1	3.0	3.4	3.3	4.5	6.5	7.8	7.2	6.9	6.0	7.0	8.0	8.2	8.5	9.6	8.0	6.4	5.6	5.6	10.9	8.6	6.4	5.8	5.6	4.6	P 11.3	25	3.0	7	
JUL	4.0	3.9	3.9	5.7	5.0	4.9	5.8	5.9	5.0	4.0	3.6	3.3	3.1	3.0	3.0	2.8	2.9	3.8	4.6	6.6	6.7	6.1	5.1	4.4	3.8	3.8	3.2	3.2	3.1	3.0	2.7	Q 15.4	3	2.7	31
AUG	2.7	2.7	2.9	2.7	2.8	2.6	2.5	2.4	2.4	2.4	2.7	2.5	2.9	2.9	2.8	2.5	2.4	2.4	2.4	2.3	2.5	3.0	2.9	2.5	2.3	2.1	2.1	2.0	2.1	2.1	2.0	R 21.0	22	2.0	28+
SEP	2.6	12.7	15.4	11.1	7.3	5.4	4.5	3.9	3.5	3.2	3.0	2.8	2.7	2.7	2.8	2.3	2.6	2.4	2.1	2.3	2.4	3.0	3.0	2.8	2.5	2.4	2.4	3.8	3.3	3.3	S 15.4	3	2.1	19	
OCT	3.1	2.5	2.5	2.4	2.3	2.2	2.1	2.2	2.2	2.5	2.6	7.9	6.5	5.4	4.2	3.4	3.0	2.6	2.6	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	1.9	2.0	T 21.0	12	1.9	30
NOV	2.3	1.9	2.0	2.1	2.1	2.1	2.0	1.9	2.2	4.5	6.9	6.1	5.0	3.9	3.4	3.4	3.2	3.1	3.0	3.4	3.5	9.1	14.1	14.1	11.7	8.7	6.2	5.4	4.7	4.5	4.3	U 21.4	22	1.9	2+
DEC	4.0	3.9	6.2	15.4	17.8	18.6	17.6	16.7	16.1	14.6	9.6	8.3	8.3	6.4	5.4	5.4	3.4	3.4	3.4	3.6	3.8	3.9	3.9	3.3	4.6	3.8	3.7	3.8	3.8	3.8	V 21.4	6	3.3	23	

WABASH RIVER AT COVINGTON, IND.  
GAGE ZERO, 473.97 FEET; M.S.L. FLOOD STAGE, 16 FEET.

1950	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High water	Date	Low water	Date
JAN	12.4	11.0	11.3	10.0	22.8	27.0	28.5	27.8	26.1	24.7	23.6	24.0	24.8	25.6	R25.6	25.5	25.4	25.1	24.4	23.0	21.2	19.1	16.4	14.4	15.6	18.8	22.0	24.2	24.6	24.1	22.9	S 28.6	7	11.0	2
FEB	21.2	19.1	16.3	13.7	12.1	11.3	11.1	10.9	11.8	14.5	17.0	18.3	18.8	19.6	22.0	24.8	25.9	25.9	24.9	23.7	21.2	18.6	15.8	13.3	14.0	15.6	14.2	13.5	16.4	18.7	21.0	M 21.0	17	10.9	8
MAR	12.5	14.6	14.9	13.1	12.1	11.9	13.0	13.7	14.1	14.5	13.3	12.4	13.5	15.3	15.2	13.7	12.9	13.5	15.8	17.0	16.9	15.4	13.3	14.0	15.6	14.2	13.5	16.4	18.7	21.0	T 21.0	31	11.0	6	
APR	21.3	19.9	18.3	16.0	20.1	23.3	24.4	23.9	22.2	20.5	19.1	19.1	20.2	20.3	19.2	17.6	15.5	13.8	12.6	11.4	10.8	10.3	12.4	14.4	15.6	14.2	13.5	16.4	18.7	21.0	V 21.0	7	10.3	23	
MAY	13.0	13.0	13.0	13.7	12.3	11.2	10.4	9.8	9.0	8.7	8.5	8.2	7.9	7.8	7.7	7.6	7.3	7.0	7.0	6.8	6.6	6.6	6.6	6.6	6.7	7.1	7.1	7.0	7.1	6.6	6.4	W 21.4	3	4.4	31
JUN	6.3	6.2	6.0	6.1	6.2	5.9	5.8	5.8	6.1	6.0	6.4	9.6	10.8	10.3	9.8	9.1	12.7	13.2	13.3	14.1	13.7	11.8	9.9	8.9	13.7	15.5	13.8	13.8	13.8	13.8	13.8	X 21.4	26	5.8	7+
JUL	7.7	7.2	7.2	7.8	8.6	8.1	8.1	9.0	8.6	7.7	6.9	6.2	6.0	5.8	5.5	5.5	5.8	6.1	6.8	10.2	10.6	10.0	8.9	7.9	7.2	6.7	6.3	5.9	5.7	5.6	5.4	Y 21.4	21	5.4	31
AUG	5.3	5.0	4.9	5.1	5.0	5.0	4.8	4.7	4.6	4.5	4.6	5.1	4.9	5.3	5.5	5.1	4.8	4.7	5.0	4.7	4.6	4.6	5.2	4.9	4.6	4.5	4.2	4.1	4.2	4.2	Z 21.4	15	4.1	29	
SEP	4.7	4.9	13.5	16.7	14.1	10.3	8.2	7.1	6.4	5.9	5.6	5.4	5.2	5.0	5.0	5.0	4.8	4.7	4.6	7.4	5.3	8.8	14.3	13.7	12.3	10.3	8.1	7.0	6.4	6.2	AA 21.4	4	4.6	19	
OCT	5.9	5.3	5.2	5.2	5.1	5.0	4.8	4.5	5.7	5.7	5.6	6.0	5.7	5.9	7.8	8.8	8.0	5.6	5.3	5.1	5.0	5.0	4.8	4.1	4.6	4.6	4.6	4.6	4.6	4.6	AB 21.4	13	4.1	24	
NOV	4.3	4.3	4.3	4.3	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	AC 21.4	8	4.3	1+	
DEC	7.0	6.7	8.3	14.1	17.3	19.2	20.8	21.4	21.1	20.4	19.2	16.1	12.4	10.2	9.1	8.5	7.8	C 7.1	C 6.8	C 6.8	C 7.2	C 7.1	C 7.5	C 7.5	C 8.1	C 7.5	C 7.3	C 6.7	C 6.3	C 6.4	C 6.8	U 21.4	8	6.3	28

WABASH RIVER AT TERRE HAUTE, IND.  
GAGE ZERO, 445.78 FEET; M.S.L. FLOOD STAGE, 14 FEET.

1950	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Highest or crest	Date	Lowest	Date
JAN	15.1	13.3	12.0	17.2	22.0	23.4	24.9	T25.2	24.7	23.8	23.8	23.3	22.5	23.2	24.2	25.5	25.5	24.2	23.0	21.9	20.7	19.5	18.4	17.3	16.3	16.7	18.1	19.1	20.1	20.3	20.5	V 25.7	16	12.0	3
FEB	20.0	19.0	18.0	16.9	15.6	14.6	12.0	11.2	13.3	14.3	14.6	14.7	16.0	18.0	20.4	21.0	21.8	23.0	24.6	26.5	28.5	29.8	19.0	17.4	15.5	15.0	14.4	12.4	10.4	10.4	W 21.9	19	11.2	8	
MAR	12.6	13.3	13.8	13.7	12.9	12.0	11.3	12.0	12.3	12.4	12.5	10.9	12.4	12.8	13.4	13.4	13.2	12.8	12.7	13.3	14.0	14.2	14.0	13.8	13.7	13.4	13.1	13.3	15.9	16.2	16.2	X 21.9	30+	10.9	12
APR	16.4	17.2	17.3	17.3	18.1	18.9	19.5	20.3	20.2	19.6	18.5	17.6	16.9	16.6	16.6	16.4	16.0	15.2	13.8	12.3	11.2	10.6	9.9	8.7	11.6	13.4	14.3	15.2	15.7	15.8	Y 21.9	8	8.7	24	
MAY	14.6	13.2	12.2	12.2	12.0	11.0	9.9	8.8	8.0	8.0	7.5	7.0	7.0	6.5	5.9	5.5	6.0	5.8	5.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.4	5.4	5.6	5.3	Z 21.9	1	5.2	21+	
JUN	5.0	5.2	5.0	4.9	4.7	4.6	4.3	4.3	4.0	5.0	5.3	6.0	6.8	7.7	7.5	7.3	7.4	11.5	13.3	14.3	14.7	13.8	12.0	9.3	8.0	13.0	14.6	14.6	11.2	8.6	AA 21.9	21	4.0	9	
JUL	7.5	6.5	6.6	9.8	10.8	8.4	7.6	7.1	7.1	6.9	5.9	5.5	4.8	4.7	4.4	4.3	4.0	4.4	5.6	6.8	8.8	8.4	7.5	6.5	5.8	5.2	4.7	4.4	4.3	4.0	4.2	AB 21.9	5	4.0	17+
AUG	3.7	3.7	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.5	3.4	3.4	3.4	3.4	3.1	3.1	3.1	3.2	3.2	3.2	3.0	3.0	3.2	3.0	2.8	2.7	2.6	2.5	AC 21.9	1+	2.5	30+
SEP	5.6	10.0	13.5	14.3	13.5	11.4	8.1	6.2	5.2	4.7	4.4	4.0	3.8	3.4	3.4	3.4	3.4	3.2	3.1	3.1	11.8	14.1	15.6	15.8	15.0	12.8	9.2	7.5	6.2	6.0	AD 21.9	23+	3.1	19+	
OCT	4.9	4.6	4.3	4.3	4.2	3.9	3.6	3.5	3.5	7.3	6.6	5.7	6.2	7.1	6.4	5.9	4.9	4.4	4.2	4.0	3.6	3	3	3	3	3	3	3	3	3	3	3	3	3	3
NOV	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.1	4.7	4.8	4.7	6.5	6.3	5.5	4.2	4.0	4.0	3.9	5.0	12.4	13.1	13.4	13.5	13.6	12.8	9.9	8.0	7.2	6.7	6.7	6.7	6.7	6.7	
DEC	5.6	5.6	5.9	13.6	14.3	14.6	14.8	15.6	16.2	16.6	16.9	C16.3	15.8	13.2	9.5	8.1	7.3	5.8	C 5.0	C 4.0	C 4.0	C 3.0	3.8	D 5.0	D 5.0	D 5.0	D 5.0	D 4.0	D 4.0	D 4.0	D 4.0	D 4.0	D 4.0	D 4.0	

## INDEX BY STATIONS

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Mount Carmel, Ill.	Vashaw	8	103	Riparia, Wash.	Susquehanna	.....	.....
Mount Vernon, Ga.	Oconee	6	45	River Falls, Ala.	Comacoh	.....	49
Mount Vernon, Ind.	Ohio	9	136	Trinity, Tex.	Trinity	.....	149
Munfordville, Ky.	Green	11	173	Vashaw	Vashaw	.....	102
Muncatins, Iowa	Mississippi	7	68	Shenandoah	Shenandoah	.....	33
Naples, Tex.	Sulphur	10	137	Catawba	Catawba	.....	41
Nashua, N. H.	Merrimack	5	22	Casey Fork	Casey Fork	.....	.....
Nashville, Tenn.	Cumberland	8	104	Unadilla	Unadilla	.....	27
Natchez, Miss.	Mississippi	10	144	Neches	Neches	.....	148
Natrona, Pa.	Allegheny	8	.....	Trinity-East Fork	Trinity-East Fork	.....	148
Nebraska City, Nebr.	Snake	8	79	Tar	Tar	.....	5
Neely, Idaho	River	11	165	Constantine	Constantine	.....	50
Neillville, Wis.	Elkhorn	6	58	French Broad	French Broad	.....	.....
Neligh, Nebr.	Elkhorn	7	.....	Trinity	Trinity	.....	10
Neuse, N. C.	Neuse	6	37	Green	Green	.....	98
New Braunfels, Tex.	Guadalupe	10	.....	Sacramento	Sacramento	.....	162
Newburgh, Ind.	Ohio	9	.....	Saginaw	Saginaw	.....	20
Newcomerstown, Ohio	Tuscarawas	8	103	Williamette-Coast Fork	Williamette-Coast Fork	.....	166
New Harmony, Ind.	Vashaw	8	103	White	White	.....	127
New Madrid, Mo.	Mississippi	10	142	St. Francis	St. Francis	.....	140
New Orleans, La.	White	9	125	St. Francis	St. Francis	.....	140
Newport, Ark.	Junata	5	30	St. John, Calif.	St. John, Calif.	.....	.....
Newport, Pa.	Ohio	9	116	St. Joseph, Mo.	St. Joseph, Mo.	.....	79
New Richmond, Ohio	Ohio	9	103	St. Louis, Mo.	St. Louis, Mo.	.....	69
New River, Tenn.	Chickasaw	8	48	St. Paul, Minn.	St. Paul, Minn.	.....	83
Newton, Calif.	Feather	11	160	St. Regis, Mont.	St. Regis, Mont.	.....	163
Noblesville, Ind.	White-West Fork	8	98	St. Thomas	St. Thomas	.....	77
Norcross, Ga.	Chattahoochee	6	46	Salem, Oreg.	Salem, Oreg.	.....	169
Norfolk, Nebr.	Elkhorn	7	72	Salida, Colo.	Salida, Colo.	.....	.....
Norris Dam, Tenn.	Clinch	9	107	Salina, Kans.	Salina, Kans.	.....	73
North Platte, Nebr.	North Platte	7	71	Saltsburg, Pa.	Saltsburg, Pa.	.....	82
.....	South Platte	7	71	Santa Rosa, N. Mex.	Santa Rosa, N. Mex.	.....	183
North Stratford, N. H.	Connecticut	5	33	Sapinero, Colo.	Sapinero, Colo.	.....	.....
Oklahoma City, Okla.	North Canadian	9	130	Savannah, Tenn.	Savannah, Tenn.	.....	141
Olean, N. Y.	Allegheny	7	82	Scandia, Kans.	Scandia, Kans.	.....	110
Omaha, Nebr.	Missouri	7	79	Schenley, Pa.	Schenley, Pa.	.....	.....
Oneonta, N. Y.	Susquehanna	5	30	Helma, Ala.	Helma, Ala.	.....	52
Orange, Tex.	Sabine	10	147	Seward, Pa.	Seward, Pa.	.....	83
Orangeburg, S. C.	Edisto-North Fork	6	.....	Seymour, Ind.	Seymour, Ind.	.....	100
Oregon City, Oreg.	Williamette	11	170	Shenango	Shenango	.....	.....
Oroville, Calif.	Feather	11	160	Shenango	Shenango	.....	27
Oscola, Mo.	Osage	7	76	Shoals	Shoals	.....	100
Oswego, Kans.	Neosho	9	129	Shreveport, La.	Shreveport, La.	.....	139
Otowi, N. Mex.	Rio Grande	10	154	Shubuta, Miss.	Shubuta, Miss.	.....	55
Ottawa, Kans.	Marais des Cygnes	7	76	Sidney, Ohio	Sidney, Ohio	.....	94
Ottumwa, Iowa	Des Moines	7	61	Simmesport, La.	Simmesport, La.	.....	146
Overton, Nebr.	Platte	7	72	Sioux City, Iowa	Sioux City, Iowa	.....	79
Owensboro, Ky.	Ohio	9	119	Smithfield, N. C.	Smithfield, N. C.	.....	37
Ozark, Ark.	Arkansas	10	133	Smithville, Tex.	Smithville, Tex.	.....	151
Paducah, Ky.	Ohio	9	121	Snodgrass, Wash.	Snodgrass, Wash.	.....	173
Do	Tennessee	9	111	South Charleston, W. Va.	South Charleston, W. Va.	.....	.....
Pagosa Springs, Colo.	San Juan	11	157	South Newbury, Vt.	South Newbury, Vt.	.....	.....
Paintsville, Ky.	Lewis Fork	8	91	Spalding, Idaho	Spalding, Idaho	.....	165
Panama, Colo.	Gunnison-North Fork	11	.....	Spencer, Ind.	Spencer, Ind.	.....	99
Parkersburg, W. Va.	Ohio	9	113	Spokane, Wash.	Spokane, Wash.	.....	164
Parkersburg, Pa.	Allegheny	8	83	Springbank, Ark.	Springbank, Ark.	.....	.....
Parkville, Mo.	St. Francis	10	141	Springfield, Mass.	Springfield, Mass.	.....	24
Pearl River, La.	Pearl	6	57	Springfield, W. Va.	Springfield, W. Va.	.....	124
Pease, S. C.	Pea Dee	6	39	Sugar Loaf Mountain, Ark.	Sugar Loaf Mountain, Ark.	.....	.....
Pelee, S. C.	Saluda	6	40	Sullivan, Mo.	Sullivan, Mo.	.....	64
Peasocook, N. H.	Contoocook	5	22	Sunbury, Pa.	Sunbury, Pa.	.....	32
Peoria, Ill.	Illinois	7	63	Sutersville, Pa.	Sutersville, Pa.	.....	85
Perkins, Okla.	Cimarron	9	128	Swan Lake, Miss.	Swan Lake, Miss.	.....	141
Perryville, Tenn.	Tennessee	9	110	Tarboro, N. C.	Tarboro, N. C.	.....	36
Peru, Ill.	Illinois	7	62	Tell City, Ind.	Tell City, Ind.	.....	119
Peru, Ind.	Vashaw	8	101	Terre Haute, Ind.	Terre Haute, Ind.	.....	102
Petersburg, Ind.	White	8	100	The Dalles, Oreg.	The Dalles, Oreg.	.....	172
Philadelphia, Pa.	Schuylkill	5	26	Three Rivers, Tex.	Three Rivers, Tex.	.....	183
Philippi, W. Va.	Tygart	8	84	Tiffin, Ohio	Tiffin, Ohio	.....	31
Pickwick Dam, Tenn.	Tennessee	.....	.....	Tipp City, Ohio	Tipp City, Ohio	.....	.....
Pierre, S. Dak.	Missouri	7	78	Topeka, Kans.	Topeka, Kans.	.....	74
Pikeston, Ohio	Scioto	8	91	Townsend, Pa.	Townsend, Pa.	.....	31
Pikeville, Ky.	Lewis Fork	8	91	Tracy, Iowa	Tracy, Iowa	.....	88
Pine Bluff, Ark.	Arkansas	10	134	Trenton, N. J.	Trenton, N. J.	.....	75
Piqua, Ohio	Miss.	8	94	Trenton, N. J.	Trenton, N. J.	.....	26
Pittsburgh, Pa.	Ohio	9	111	Tribes Hill, N. Y.	Tribes Hill, N. Y.	.....	24
Pleasant Hill, Ohio	Stillwater	8	94	Trinidad, Tex.	Trinidad, Tex.	.....	149
Plymouth, N. H.	Pemigewasset	5	22	Trinidad, Wash.	Trinidad, Wash.	.....	171
Point Pleasant, W. Va.	Ohio	9	113	Tulsa, Okla.	Tulsa, Okla.	.....	132
Poplar Bluff, Mo.	Black	12	123	Tuscaloosa Lock and Dam, Ala.	Tuscaloosa Lock and Dam, Ala.	.....	53
Portage, Wis.	Wisconsin	6	59	Unadilla, N. Y.	Unadilla, N. Y.	.....	30
Port Jervis, N. Y.	Delaware	5	26	Union, Mo.	Union, Mo.	.....	63
Portland, Mich.	Grand	5	.....	Uniontown, Ky.	Uniontown, Ky.	.....	120
Portland, Oreg.	Williamette	11	170	Upper Sandusky, Ohio	Upper Sandusky, Ohio	.....	21
Portsmouth, Ohio	Ohio	9	115	Valley Junction, Tex.	Valley Junction, Tex.	.....	150
Poston, S. C.	Pea Dee	6	.....	Valley Park, Mo.	Valley Park, Mo.	.....	64
Prairie du Chien, Wis.	Mississippi	7	86	Van Buren, Ark.	Van Buren, Ark.	.....	133
Prickett, Ohio	Clark Fork	11	164	Vancouver, Ky.	Vancouver, Ky.	.....	.....
Prospect, Idaho	Scioto	8	92	Vancouver, W. Va.	Vancouver, W. Va.	.....	172
Prospect, Tenn.	Elk	9	108	Vandergrift, Pa.	Vandergrift, Pa.	.....	82
Pueblo, Colo.	Arkansas	10	.....	Van Meter, Iowa	Van Meter, Iowa	.....	60
Quincy, Ill.	Mississippi	7	69	Vestal, N. Y.	Vestal, N. Y.	.....	31
Radford, Va.	New	8	89	Vicksburg, Miss.	Vicksburg, Miss.	.....	144
Rainbow, Tex.	Brazos	10	.....	Victoria, Tex.	Victoria, Tex.	.....	153
Ralston, Okla.	Arkansas	10	132	Vincennes, Ind.	Vincennes, Ind.	.....	103
Randolph, Va.	Snake	5	35	Waco, Tex.	Waco, Tex.	.....	161
Rapidan, Va.	Rapidan	5	113	Wabpeton, N. Dak.	Wabpeton, N. Dak.	.....	150
Ravenwood, W. Va.	Ohio	5	113	Wakefield, Kans.	Wakefield, Kans.	.....	18
Reading, Pa.	Schuylkill	5	25	Wamego, Kans.	Wamego, Kans.	.....	74
Reads, Minn.	Mississippi	7	65	Wapello, Iowa	Wapello, Iowa	.....	80
Red Bluff, Calif.	Sacramento	11	161	Warren, Pa.	Warren, Pa.	.....	83
Red River Landing, La.	Mississippi	10	144	Warren, Mo.	Warren, Mo.	.....	78
Red Wing, Minn.	.....	7	85	Washington, N. D.	Washington, N. D.	.....	.....
Renovo, Pa.	Conestoga-West Branch	6	49	Washington, D. C.	Washington, D. C.	.....	33
Resaca, Ga.	Conestoga	6	49	Washington (near), D. C.	Washington (near), D. C.	.....	.....
Reserve, La.	Mississippi	10	145	Washington, Tex.	Washington, Tex.	.....	150
Rexburg, Idaho	Hearns Fork	11	164	Waterloo, Iowa	Waterloo, Iowa	.....	85
Richmond, Tex.	Brazos	10	151	Waterloo, Oreg.	Waterloo, Oreg.	.....	168
Richmond, Va.	James	5	34	Waverly, Mo.	Waverly, Mo.	.....	80
Rimini, S. C.	Santee	6	.....	Waynesboro, Miss.	Waynesboro, Miss.	.....	55
Rio Grande City, Tex.	Rio Grande	11	155				
Rio Vista, Calif.	Sacramento	11	162				



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# DAILY RIVER STAGES

VOLUME XLVII  
1951

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# DAILY RIVER STAGES-1951

## INTRODUCTION

This volume, containing the daily river stages for 1951 is the forty-seventh of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XV. 1917	Volume XXVI. 1928	Volume XXXVII. 1939
V. 1893 to 1895	XVI. 1918	XXVII. 1929	XXXVIII. 1940 and 1941
VI. 1896 to 1899	XVII. 1919	XXVIII. 1930	XXXIX. 1942 and 1943
VII. 1900 to 1904	XVIII. 1920	XXIX. 1931	XL. 1944
VIII. 1905 to 1906	XIX. 1921	XXX. 1932	XLI. 1945
IX. 1907 to 1908	XX. 1922	XXXI. 1933	XLII. 1946
X. 1909 to 1910	XXI. 1923	XXXII. 1934	XLIII. 1947
XI. 1911 to 1912	XXII. 1924	XXXIII. 1935	XLIV. 1948
XII. 1913 to 1914	XXIII. 1925	XXXIV. 1936	XLV. 1949
XIII. 1915	XXIV. 1926	XXXV. 1937	XLVI. 1950
XIV. 1916	XXV. 1927	XXXVI. 1938	

Volumes XXXVII to XLVII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.



## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River.
Burlington, Iowa.....	Mississippi River and tributaries, except the Iowa and Skunk Rivers, and the Des Moines River at and above Keosauqua, Iowa, from below Muscatine, Iowa, to but not including Dam No. 24.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo. to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, and Yadkin-Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Sandusky and Scioto Rivers.
Concord, N. H.....	Merrimack River and tributaries.
Dallas, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa and Skunk Rivers and tributaries. Des Moines River and tributaries at and above Keosauqua, Iowa.
Elkins, W. Va.....	Tygart River and tributaries at and above the Tygart River Dam, W. Va.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward to but not including the Klamath River.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries below the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo.....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.

La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
Medford, Oreg.....	Oregon and California Coast drainage, from and including Umpqua River Basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon, except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries, Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River; Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah.....	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Francisco, Calif.....	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.
Tulsa, Okla.....	Arkansas River and tributaries, except the Canadian River, from the Kansas-Oklahoma line to and including Van Buren, Ark.



Vicksburg, Miss..... Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.  
 Washington, D. C..... Potomac and Rappahannock Rivers and tributaries.  
 Wichita, Kans..... Arkansas River and tributaries in Kansas.

#### River Forecast Centers

Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (Moundsville, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky.  
 Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and their tributaries.  
 Kansas City, Mo..... Lower Missouri River Forecast Center: Missouri River and tributaries, (except the North Platte and South Platte above North Platte, Nebr.) from below Bismarck, N. Dak., to and including Jefferson City, Mo., and the Marais des Cygnes River in Kansas.  
 Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to and including the Klamath River.  
 St. Louis, Mo..... Middle Mississippi River Forecast Center: Mississippi River and tributaries from below Muscatine, Iowa, to and including New Madrid, Mo., the Missouri River and tributaries below Jefferson City, Mo., (except the Marais des Cygnes River in Kansas); the Ohio River and tributaries, below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River).  
 Tulsa, Okla..... Arkansas River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado Line, except the Canadian River in New Mexico.

## RIVER STATIONS AND MISCELLANEOUS INFORMATION

[River stations, arranged by drainage areas, and miscellaneous information pertaining thereto]

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>				
							Highest	Date	Lowest	Date	
MISSISSIPPI SYSTEM--Continued							Feet	Feet	Feet	Feet	
Ohio Basin							Years	Feet	Miles	Sq. Miles	Feet
Seward, Pa.	Conemaugh	14	1,075.64	37.0	715	18					
Saltsburg, Pa.	Kiskiminetas	37	825.72	27.2	1,701	16	32.9	Mar. 18, 1936	-0.8	Oct. 5, 1892	
Vandergrift, Pa.	do	17	769.40	11.9	1,825	25	25.7	Mar. 31, 1940	2.9	Oct. 12, 1943	
Clear, N. Y.	Allegheny	29	1,401.12	258.0	1,137	10					
Warren, Pa.	do	67	1,168.80	191.7	3,134	14	17.2	Mar. 27, 1913	0.7	Sept. 26, 1941	
Franklin, Pa.	do	47	955.92	126.4	5,952	17	26.0	Feb. 27, 1917			
Parker, Pa.	do	67	845.14	85.0	7,671	20	27.1	Mar. 26, 1913	0.1	Sept. 8, 1886	
Lock No. 5, Schenley, Pa. (Lower gage)	do	79	734.49	30.6	9,329	27	45.7	Mar. 18, 1936	11.0	July 19, 1936	
Lock No. 4, Matrons, Pa. (Lower gage)	do	25	724.75	24.2	11,410	24	43.6	do	8.0	Feb. 27, 1934	
Lock No. 3, Acacia, Pa. (Lower gage)	do	17	710.21	14.7	11,517	25	45.2	do	11.1	July 17, 1936	
Elkins, W. Va.	Tygart	3	1,901.65	86.0	266	17	16.9	Dec. 16, 1948	4.2	June 27, 1949	
Philippi, W. Va.	do	33	1,280.55	46.0	916	17	U26.7	Oct. 29, 1937	10.0	Sept. 29, 1930	
Weston, W. Va.	West Fork	49	993.84	69.0	133	17	25.5	June 25, 1950	1.2	July 15, 1951	
Confluence, Pa.	Youghiogheny	79	1,302.77	67.0	1,029	12	V21.9	Mar. 29, 1924	V0.7	Sept. 6, 1881	
Conneville, Pa.	do	44	860.13	45.0	1,326	16	20.3	Mar. 18, 1936	0.1	Sept. 23, 1908	
Sutersville, Pa.	do	34	733.36	13.5	1,715	20	30.65	do	1.4	Sept. 27, 1939	
Lock No. 15, Houli, W. Va. (Lower gage)	Monongahela	48	838.91	126.2	2,437	28	29.4	Jan. 2, 1919	0.7	Dec. 6, 1908	
Lock No. 10, Morgantown, W. Va. (Lower gage)	do	64	785.40	101.5	2,682	24	39.1	July 10, 1888	-0.2	Oct. 5, 1873	
Lock No. 7, Greensboro, Pa. (Lower gage)	do	66	753.00	84.8	4,407	37	46.4	Mar. 18, 1936	6.2	Sept. 15, 1930	
Lock No. 4, Charleroi, Pa. (Lower gage)	do	39	718.25	14.6	7,161	12	43.5	July 11, 1888	4.73	Nov. 18, 1887	
McKeesport, Pa.	do	13	862.19	26.0	588	10	28.8	Mar. 18, 1936	0.6	Aug. 14, 1944	
Sharpsville, Pa.	Shenango	44	727.48	5.3	3,106	15					
Beaver Falls, Pa.	Beaver	24	727.48	5.3	3,106	15	17.4	Mar. 27, 1913	1.7	Aug. 20-25, 1951	
Newcomerstown, Ohio	Tuscarawas	24	780.00	21.1	2,436		W21.2	Aug. 9, 1935	2.0	Dec. 30, 1951	
Lock No. 10, Zanesville, Ohio (Lower gage)	Munkingus	61	665.30	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895	
Lock No. 7, McConnellsville, Ohio (Lower gage)	do	39	635.00	48.2	7,411	22	49.1	do	3.4	Oct. 9, 1916	
Lock No. 3, Lowell, Ohio (Lower gage)	do	51	697.79	103.0	365	23	32.5	Mar. 7, 1945	5.8	Aug. 12, 1930	
Glenville, W. Va.	Little Kanawha	51	621.71	48.0	1,214	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906	
Creston, W. Va.	do	36	615.59	31.6	944	17	23.0	Mar. 7, 1945	2.0	Aug. 13, 1941	
Athens, Ohio	Hocking	36	2,003.28	71.0	238	23	18.2	June 27, 1940	0.9	Aug. 5-6, 1944	
Camden on Gauley, W. Va.	Gauley	21	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	0.6	July 9, 1930	
Galax, Va.	New	56	1,712.36	145.0	2,761	14	36.0	do	-2.0	Nov. 3, 1904	
Radford, Va.	do	26	1,489.76	95.0	3,859	15	27.5	do	-0.1	Sept. 29, 1926	
Glenlyn, Va.	do	65	1,356.44	63.4	6,268	14	20.2	Sept. 13, 1878	0.3	Oct. 29-31, 1951	
Hinton, W. Va.	do	37	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	0.1	Oct. 27, 1936	
Clay, W. Va.	Elk	38	623.20	95.0	8,415	25	30.9	Aug. 15, 1940	-0.9	Oct. 29, 1921	
Kanawha Falls, W. Va.	Kanawha	18	581.00	82.8	8,552	43	40.9	do			
London Dam, London, W. Va.	do	79	558.85	58.4	10,495	34	41.6	Sept. 14, 1878	-0.1	Sept. 15, 1881	
Charleston, W. Va.	do	30	639.08	61.4	858	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923	
Logan, W. Va.	Guyandot	44	574.77	35.0	1,268	38	38.8	Jan. 29, 1918	1.4	Oct. 4, 1920	
Kernit, W. Va.	Tug Fork	24	633.03	88.5	1,225	36	48.5	Mar. 23, 1929	0.1	Oct. 5, 1951	
Pinckville, Ky.	Lewis Fork	24	566.84	38.5		40	42.15	Feb. 4, 1939	1.1	July 23, 1930	
Paintsville, Ky.	do	63	516.46	26.6	3,821	45	48.0	Feb. 5, 1939	0.7	Nov. 18, 1884	
Louisa, Ky.	Big Sandy	42	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921	
Delaware, Ohio	Olentangy	36	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.8	June 5, 1941	
La Rue, Ohio	Scioto	45	891.72	172.2	554	10	15.0	Mar. 22, 1927	0.2	Oct. 2, 1910	
Prospect, Ohio	do	54	700.03	131.9	1,613	22	N22.9	Mar. 25, 1913	-0.8	July 27, 1923	
Columbus, Ohio	do	40	643.03	106.4	3,817	14	28.2	Mar. 26, 1913	1.7	Aug. 13, 1944	
Circleville, Ohio	do	44	594.02	70.4	3,847	16	39.8	do	0.85	Sept. 27, 1944	
Chillicothe, Ohio	do	9	533.52	35.0	5,824	15	27.8	Mar. 7, 1945	0.4	Oct. 22, 1951	
Pikeston, Ohio	do	27	587.10	28.1	1,048	17	33.7	Mar. 26, 1913	0.5	Nov. 10, 1951	
Kings Mills, Ohio	Little Miami	35	688.52	46.0	641	20	23.3	Apr. 13, 1948	0.5	June 15, 1936	
Cynthiana, Ky.	South Fork	36	646.55	172.0	826	25	31.1	Feb. 9, 1918	1.0	July 13-14, 1945	
Farmers, Ky.	Licking	65	511.16	51.2	2,267	28	41.6	Apr. 14, 1948	-0.1	Sept. 6, 1930	
Palmouth, Ky.	do	36	846.55	29.2	502	13	17.5	Jan. 15, 1937	0.6	July 26, 1941	
Pleasant Hill, Ohio	Stillwater	37	881.42	23.6	1,465	11	15.1	Jan. 15, 1937	1.2	Dec. 4, 1944	
Springfield, Ohio	do	34	595.73	27.0	1,230	20	25.6	Feb. 26, 1929	0.1	Sept. 25, 1941	
Brookville, Ind.	Whitewater	33	924.65	134.8	545	12	14.2	Mar. 21, 1927	-0.2	Sept. 23, 1940	
Sidney, Ohio	Miami	41	844.00	122.1	850	17	25.1	Mar. 25, 1913	0.7	Sept. 17, 1941	
Piqua, Ohio	do	29	786.77	104.5	955	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941	
Tipp City, Ohio	do	59	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-0.1	Sept. 28, 1941	
Dayton, Ohio	do	29	678.44	61.3	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1929	
Miamisburg, Ohio	do	29	858.41	27.3	2,731	16	16.7	do	0.0	Nov. 5, 1944	
Franklin, Ohio	do	29	826.00	53.6	3,162	14	17.5	Feb. 27, 1929			
Middletown, Ohio	do	41	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932	
Hamilton, Ohio	do	27	839.76	96.0	465	20	35.0	May 30, 1927			
Hazard, Ky.	North Fork	24	897.67	46.0	1,105	29	43.1	Feb. 4, 1939	0.3	Aug. 14-17, 1944	
Jackson, Ky.	do	35	627.20	249.3	2,639	30	35.6	do	4.8	Nov. 10, 1930	
Lock No. 14, Heidelberg, Ky.	Kentucky	46	556.80	176.3	3,948	30	35.1	Mar. 29, 1913	9.0	Aug. 8-14, 1944	
Lock No. 10, Ford, Ky.	do	51	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24, 1912	
Lock No. 7, Highbridge, Ky.	do	66	462.17	55.0	5,396	31	47.6	Jan. 25, 1937	3.2	Nov. 1, 1908	
Lock No. 4, Frankfort, Ky.	do	28	409.83	37.6	1,680	28	X40.7	Jan. 23, 1937	X0.0	Oct. 18, 1923	
Bowling Green, Ky.	Barran	12	393.18	62.5	752	25	29.0	Jan. 14, 1950			
Dundee, Ky.	Rough	27	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928	
Munfordville, Ky.	Green	45	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919	
Lock No. 6, Brownsville, Ky.	do	53	373.80	149.5	5,446	33	59.0	do	5.0	Sept. 17, 1902	
Lock No. 4, Woodbury, Ky.	do	53	343.64	62.8	7,681	34	54.4	Jan. 31, 1937	3.7	July 28, 1902	
Anderson, Ind.	West Fork	41	825.02	242.6	412	10	23.6	Mar. 25, 1913			
Hobbsville, Ind.	do	38	738.18	215.1	1,845	14	20.1	May 19, 1943	3.0	Aug. 29, 1914	
Indianapolis, Ind.	do	41	672.92	185.3	1,620	12	29.5	Mar. 26, 1913	2.0	Sept. 17, 1941	
Spencer, Ind.	do	26	526.04		2,980	14	23.2	Jan. 16, 1937	0.9	Oct. 1, 1941	
Elliston, Ind.	do	44	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.3	Oct. 22, 1944	
Edwardsport, Ind.	do	29	433.20	32.6	5,000	12	26.3	Jan. 8, 1950	1.7	Jan. 2, 1945	
Seymour, Ind.	East Fork	29	550.67	167.6	2,340	14	19.7	Jan. 5, 1949	0.3	Aug. 22, 1936	
Williams, Ind.	do	31	472.56	79.2	4,690	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931	
Shoals, Ind.	do	44	442.25	56.0	4,940	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936	
Petersburg, Ind.	White	25	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	0.0	Aug. 26, 1936	
Hazleton, Ind.	do	45	383.26	18.9	11,200	36	31.6	Jan. 22, 1937	0.5	Sept. 30, 1941	
Bluffton, Ind.	Wabash	41	793.01	421.8	4,470	10	20.0	Mar. 26, 1913	0.2	July 26, 1934	
Wabash, Ind.	do	29	642.66	376.6	1,670	12	24.2	May 18, 1943	1.7	Aug. 9, 1934	
Peru, Ind.	do	7	622.73	362.4	2,660	20	22.6	Jan. 5, 1950			
Logansport, Ind.	do	34	573.28	343.2	3,760	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914	
La Fayette, Ind.	do	38	504.14	301.4	7,230	11	28.4	May 19, 1943	0.3	Sept. 25, 1941	
Covington, Ind.	do	25	473.97	260.5	8,230	16	32				

See footnotes at end of table.



# MISSISSIPPI SYSTEM-OHIO BASIN

WABASH RIVER AT LOGANSPORT, IND.  
GAGE ZERO, 573.28 FEET; M.S.L. FLOOD STAGE, 17 FEET.

1951	Day of month																															Highest or crest	Date	Lowest	Tide
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
JAN	3.9	3.7	6.9	11.1	10.5	9.2	7.9	6.5	5.4	5.0	4.7	4.5	3.3	4.2	4.7	5.4	6.2	6.4	7.7	8.6	7.9	6.7	5.7	5.0	4.6	4.3	4.1	4.1	3.9	3.6	3.6	11.3	4	3.3	13
FEB	3.6	5.8	5.3	5.2	5.1	4.8	4.6	4.7	4.5	4.4	4.4	4.5	4.4	4.4	4.7	5.4	6.2	6.4	7.7	8.6	7.9	6.7	5.7	5.0	4.6	4.3	4.1	4.1	3.9	3.6	3.6	13.2	22	3.6	1
MAR	5.7	6.3	6.0	5.8	5.5	5.2	5.8	6.6	6.3	5.6	4.9	4.5	4.4	4.8	7.3	7.8	7.3	7.0	6.7	6.2	5.4	5.0	4.9	5.1	6.0	5.9	5.1	4.6	4.6	5.3	8.4	8.4	31	4.4	13
APR	7.6	6.7	5.9	5.3	4.9	4.6	4.4	5.0	6.0	6.9	8.8	8.6	8.8	8.8	9.0	8.4	6.9	6.0	5.4	5.0	4.7	4.5	4.5	6.7	5.8	5.0	4.6	4.5	5.0	5.9	9.0	15	4.4	7	
MAY	5.2	4.6	4.3	4.2	4.2	4.2	4.0	3.9	3.8	3.7	3.4	3.9	9.3	7.7	6.2	5.1	4.6	4.5	4.3	4.3	4.3	4.3	4.3	4.3	3.9	3.8	3.7	3.8	3.8	3.8	10.0	12	3.7	10	
JUN	3.7	3.7	3.6	3.7	3.6	3.6	3.5	3.5	3.9	4.8	4.1	3.8	3.7	3.7	3.7	4.2	3.9	3.7	3.6	3.5	3.1	4.2	4.0	4.2	4.0	3.8	3.6	3.5	3.7	4.1	3.6	5.1	21	3.5	7
JUL	3.6	3.5	3.4	3.4	3.3	3.3	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
AUG	3.3	3.2	3.2	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
SEP	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
OCT	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.2	4.1	4.0	3.6	3.4	3.3	3.2	3.2	3.2	3.2	3.2	3.2
NOV	3.2	3.1	3.1	3.1	3.0	3.0	3.1	3.1	3.2	3.3	3.4	3.7	3.8	3.9	3.4	3.1	3.0	3.8	3.6	3.6	3.5	3.4	3.4	3.4	3.5	3.9	3.9	3.7	3.6	3.5	3.3	3.1	3.1	3.1	3.1
DEC	3.4	3.5	3.4	3.5	6.7	7.0	6.0	5.2	4.8	5.2	5.5	5.3	4.5	4.1	3.8	3.8	4.7	4.7	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4

WABASH RIVER AT LA FAYETTE, IND.  
GAGE ZERO, 504.14 FEET; M.S.L. FLOOD STAGE, 11 FEET.

1951	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High or crest	Date	Low	Date	
JAN	8.4	8.7	10.3	15.7	17.2	16.5	14.7	11.4	8.7	7.0	6.5	5.8	5.4	5.0	4.8	5.5	7.0	8.4	10.1	12.2	12.5	10.7	8.3	6.8	5.8	5.1	4.8	4.7	4.4	2.9	2.8	17.2	5	2.8	31	
FEB	8.2	8.7	9.3	8.7	8.1	7.4	8.9	9.2	9.2	8.4	7.2	6.2	5.8	5.4	5.0	4.8	5.5	7.0	8.4	10.1	12.2	12.5	10.7	8.3	6.8	5.8	5.1	4.8	4.7	4.4	2.9	2.8	17.2	22	2.8	1
MAR	11.1	9.7	8.4	7.2	6.3	5.8	5.4	6.0	8.3	9.3	14.1	14.8	15.3	15.3	15.5	15.2	13.4	10.6	8.9	7.6	6.8	6.5	6.1	7.4	8.1	7.0	5.8	5.5	5.1	4.1	7.1	15.5	15	5.4	7	
APR	7.1	6.0	5.3	4.9	4.5	4.7	4.3	4.1	4.0	3.9	5.9	12.9	14.7	13.3	9.8	7.5	6.0	5.2	5.3	4.8	4.8	4.6	4.3	4.2	3.8	3.7	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
MAY	3.9	3.6	3.5	3.6	3.4	3.3	3.4	3.3	3.6	3.8	4.3	3.7	3.4	3.6	3.5	3.8	3.8	3.4	3.0	3.0	3.0	4.2	3.9	4.0	3.9	3.6	3.3	3.8	3.5	3.7	4.3	11	3.0	19		
JUN	3.4	3.2	3.0	3.0	3.0	3.0	2.7	2.6	2.6	2.7	2.7	2.7	2.6	2.5	2.4	2.2	2.2	2.1	2.4	2.7	2.7	2.5	2.0	2.0	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
JUL	3.2	2.9	2.7	2.7	2.5	2.3	2.5	2.7	2.6	2.7	2.7	2.7	2.6	2.5	2.4	2.2	2.2	2.1	2.4	2.7	2.7	2.5	2.0	2.0	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
AUG	2.9	2.6	2.4	2.4	2.3	2.1	2.3	2.5	2.7	2.6	2.7	2.7	2.6	2.5	2.4	2.2	2.2	2.1	2.4	2.7	2.7	2.5	2.0	2.0	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
SEP	2.7	2.4	2.2	2.2	2.1	1.9	2.1	2.3	2.5	2.7	2.6	2.7	2.6	2.5	2.4	2.2	2.2	2.1	2.4	2.7	2.7	2.5	2.0	2.0	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
OCT	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
NOV	3.0	2.8	2.7	2.4	2.3	2.3	2.4	2.5	2.4	2.5	2.7	3.1	3.7	4.4	5.0	5.7	6.1	5.7	4.9	4.7	4.2	4.0	3.7	3.9	3.9	4.0	4.1	4.2	3.7	3.6	3.5	3.1	3.1	3.1	3.1	
DEC	3.3	3.2	3.2	3.3	3.2	3.0	2.8	2.6	2.6	2.7	2.7	2.7	2.6	2.5	2.4	2.2	2.2	2.1	2.4	2.7	2.7	2.5	2.0	2.0	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

WABASH RIVER AT COVINGTON, IND.  
GAGE ZERO, 473.97 FEET; M.S.L. FLOOD STAGE, 16 FEET.

1951	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High or crest	Date	Low	Date
JAN	C 4.9	C 6.6	12.7	17.2	18.8	20.0	20.1	19.3	16.4	12.0	10.4	9.7	8.9	8.3	9.1	9.7	9.7	11.6	13.3	14.6	P15.9	15.9	14.1	11.4	10.0	8.5	7.7	7.5	7.2	6.4	5.3	20.2	6	5.3	31
FEB	B 6.8	B 6.8	B 13.2	B 13.5	B 12.7	B 11.7	B 8.6	B 8.6	B 12.0	B 13.5	B 17.7	B 17.3	B 16.1	A 9.1	A 9.6	12.9	15.0	15.2	15.5	15.1	14.0	11.9	10.4	9.8	9.7	10.2	10.5	9.6	9.1	9.4	10.5	15.7	19	9.1	29
MAR	14.0	14.4	13.0	11.7	10.2	9.4	8.8	9.0	10.6	12.6	14.9	17.1	18.2	18.9	19.0	18.9	18.0	15.5	12.9	11.3	10.3	9.8	9.5	11.5	11.1	9.8	9.1	9.5	10.2	19.1	15	9.1	28		
APR	14.0	14.4	13.0	11.7	10.2	9.4	8.8	9.0	10.6	12.6	14.9	17.1	18.2	18.9	19.0	18.9	18.0	15.5	12.9	11.3	10.3	9.8	9.5	11.5	11.1	9.8	9.1	9.5	10.2	19.1	15	9.1	28		
MAY	11.0	10.2	9.2	8.4	7.9	7.7	7.7	7.2	6.9	6.8	6.8	6.3	12.6	16.3	17.5	17.1	13.9	11.0	9.4	8.5	8.3	8.0	8.1	7.7	7.1	7.0	6.5	6.7	7.2	7.6	7.9	7.6	14	6.5	26
JUN	7.1	6.8	6.8	6.7	6.5	6.2	6.0	6.2	6.4	6.6	6.9	7.1	6.5	6.4	6.5	6.2	6.6	6.5	5.9	5.5	5.3	5.3	6.6	6.7	6.4	7.0	7.0	6.2	6.4	6.6	6.6	7.1	14	5.3	21
JUL	6.3	5.9	5.6	6.0	6.6	5.7	5.3	4.9	12.2	16.6	18.5	18.7	17.7	16.3	14.6	12.1	10.6	9.2	8.7	7.9	7.4	7.0	6.9	6.9	6.5	6.2	5.5	6.1	7.3	7.4	6.4	18.7	12	4.9	8
AUG	5.9	5.4	5.1	5.0	4.9	4.6	4.7	5.0	4.9	4.9	4.9	4.7	4.5	4.4	4.3	4.3	4.3	4.2	4.2	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
SEP	4.0	4.0	3.9	3.8	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
OCT	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
NOV	5.1	4.9	4.8	4.7	4.5	4.5	4.6	4.7	4.8	4.7	5.0	5.7	6.5	8.9	9.4	9.7	9.8	8.7	7.8	6.8	6.4	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.7	4.5	4.3	4.1	3.9	3.7	
DEC	5.9	5.7	5.6	5.8	7.0	9.7	12.2	11.2	9.7	8.7	8.5	8.8	8.8	7.9	6.4	5.1	4.9	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	

## INDEX BY STATIONS

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Mount Vernon, Ind.	Ohio	9	118	Rock Hill, S. C.	Catawba	6	40
Mount Vernon, Wash.	Skagit	11	171	Rock Island, Tenn.	Caney Fork	9	.....
Munfordville, Ky.	Green	8	96	Rockdale, N. Y.	Unadilla	5	26
Muscataine, Iowa	Mississippi	7	67	Rockland, Tex.	Neches	10	146
Naples, Tex.	Sulphur	10	135	Rockwall, Tex.	Trinity--East Fork	10	146
Nashua, N. H.	Merrimack	5	21	Rocky Mount, N. C.	Tar	6	35
Nashville, Tenn.	Cumberland	9	103	Rome, Ga.	Oostanaula	6	49
Natchez, Miss.	Mississippi	10	142	Rosser, Tex.	Trinity	10	.....
Natrona, Pa.	Allegheny	8	78	Rossey, Ky.	Sacramento	11	160
Nebraska City, Nebr.	Missouri	7	78	Sacramento, Calif.	Sacramento	11	160
Neeley, Idaho	Snake	11	164	Saginaw, Mich.	Saginaw	5	19
Neillsville, Wis.	Black	6	57	Saginaw, Oreg.	Willamette--Coast Fork	11	165
Neuse, N. C.	Neuse	6	36	St. Charles, Ark.	White	9	125
New Braunfels, Tex.	Guadalupe	11	.....	St. Charles, Mo.	Missouri	7	80
Newburgh, Ind.	Ohio	9	.....	St. Francis, Ark.	St. Francis	10	138
Newcomerstown, Ohio	Tuscarawas	8	85	St. Francis Lake Lock, Ark.	.....do.	10	138
New Harmony, Ind.	Wabash	8	102	St. John, Calif.	Stony Creek	.....	.....
New Madrid, Mo.	Mississippi	10	140	St. Joseph, Mo.	Missouri	7	78
New Orleans, La.	.....do.	10	143	St. Louis, Mo.	Mississippi	7	68
Newport, Ark.	White	9	123	St. Paul, Minn.	.....do.	7	63
Newport, Pa.	Junata	5	29	St. Regis, Mont.	Clark Fork	11	161
New Richmond, Ohio	Ohio	9	115	St. Thomas, Mo.	Osage	7	76
New River, Tenn.	New	8	103	Salem, Oreg.	Willamette	11	168
Newton, Ala.	Choctawhatchee	6	47	Salida, Colo.	Arkansas	10	.....
Nicolaus, Calif.	Feather	11	158	Salina, Kans.	Smoky Hill	7	72
Noblesville, Ind.	White--East Fork	.....	.....	Salmon, Idaho	Salmon	11	162
Norcross, Ga.	Chattahoochee	6	45	Saltsburg, Pa.	Kiskiminetas	8	81
Norfolk, Nebr.	Elkhorn	7	71	Santa Rosa, N. Mex.	Pecos	11	151
Norris Dam, Tenn.	Clinch	9	106	Sarah, Miss.	Coldwater	10	139
North Platte, Nebr.	North Platte	7	70	Savannah, Tenn.	Tennessee	9	109
Do.	South Platte	7	70	Scandia, Kans.	Republican	7	.....
North Stratford, N. H.	Connecticut	5	22	Schenley, Pa.	Allegheny	8	81
Oklahoma City, Okla.	North Canadian	10	128	Selma, Ala.	Alabama	6	51
Olean, N. Y.	Allegheny	8	81	Seward, Pa.	Conemaugh	8	81
Omaha, Nebr.	Missouri	7	78	Seymour, Ind.	White--East Fork	8	99
Oneonta, N. Y.	Susquehanna	5	29	Sharpsville, Pa.	Shenango	8	.....
Orange, Tex.	Sabine	10	145	Sherburne, N. Y.	Chenango	5	26
Orangeburg, S. C.	Edisto--North Fork	6	.....	Shoals, Ind.	White--East Fork	8	99
Oregon City, Oreg.	Willamette	11	168	Shreveport, La.	Red	10	137
Oroville, Calif.	Feather	11	158	Shubuta, Miss.	Chickasawhay	6	54
Osceola, Mo.	Osage	7	75	Sidney, Ohio	Miami	8	83
Oswego, Kans.	Neosho	9	127	Simmesport, La.	Atchafalaya	10	144
Oswego, N. Y.	Marais des Cygnes	7	.....	Sioux City, Iowa	Missouri	7	78
Otowi, N. Mex.	Rio Grande	10	152	Smithfield, N. C.	Neuse	6	36
Ottawa, Kans.	Marais des Cygnes	7	75	Smithville, Tex.	Colorado	11	149
Ottumwa, Iowa	Des Moines	7	60	Snodowish, Wash.	Snodowish	11	171
Overton, Nebr.	Platte	7	71	South Newbury, Vt.	Connecticut	5	.....
Owensboro, Ky.	Ohio	9	118	Spalding, Idaho	Clearwater	11	163
Ozark, Ark.	Arkansas	10	131	Spencer, Ind.	West Fork	8	38
Paducah, Ky.	Ohio	9	120	Spokane, Wash.	Spokane	11	162
Do.	Tennessee	9	110	Springbank, Ark.	Red	10	.....
Pagosa Springs, Colo.	San Juan	11	151	Springfield, Mass.	Connecticut	23	5
Paistaville, Ky.	Levisa	8	90	Springfield, Ohio	Mad	8	93
Parkersburg, W. Va.	Ohio--Fork	9	112	Springfield, W. Va.	Potomac--South Branch	5	.....
Parker, Pa.	Allegheny	8	82	Sugar Loaf Mountain, Ark.	Little Red	9	122
Parkin, Ark.	St. Francis	10	139	Sullivan, Mo.	Meramec	7	62
Pearl River, La.	Pearl	6	56	Sunbury, Pa.	Susquehanna	5	31
Peedee, S. C.	Pee Dee	6	38	Sutersville, Pa.	Youghiogheny	8	84
Pelzer, S. C.	Saluda	6	39	Swan Lake, Miss.	Tallahatchie	10	139
Pensacook, N. H.	Contoocook	5	21	Tarboro, N. C.	Tar	6	35
Perris, Ill.	Illinois	11	61	Tell City, Ind.	Ohio	9	117
Perrins, Okla.	Cimarron	9	126	Texas, Baile	Wash.	8	101
Perryville, Tenn.	Tennessee	9	109	The Dalles, Oreg.	Columbia	11	170
Peru, Ind.	Wabash	8	100	Three Rivers, Tex.	Neuces	11	151
Petersburg, Ind.	White	8	100	Tiffin, Ohio	Sandusky	5	20
Philadelphia, Pa.	Schuylkill	5	25	Tipp City, Ohio	Miami	8	.....
Philippi, W. Va.	Tygart	8	83	Topeka, Kans.	Kansas	7	73
Pierre, S. Dak.	Missouri	7	77	Towanda, Pa.	Susquehanna	5	30
Pikeston, Ohio	Scioto	8	81	Tracy, Iowa	Des Moines	7	60
Pikeville, Ky.	Levisa Fork	8	90	Trenton, Mo.	Thompson Fork	7	74
Pine Bluff, Ark.	Arkansas	10	132	Trenton, N. J.	Delaware	5	25
Piqua, Ohio	Miami	8	94	Trinidad, N. Y.	Mohawk	5	23
Pittsburg, Pa.	Ohio	9	110	Trinidad, Wash.	Trinity	10	147
Pleasant Hill, Ohio	Stillwater	8	93	Tulsa, Okla.	Columbia	11	169
Plymouth, N. H.	Pemigewasset	5	21	Tuscaloosa Lock and Dam, Ala.	Black Warrior	6	52
Point Pleasant, W. Va.	Ohio	9	112	Umatilla, Oreg.	Columbia	11	170
Poplar Bluff, Mo.	Black	9	121	Unadilla, N. Y.	Susquehanna	5	28
Portage, Wis.	Wisconsin	6	58	Union, Mo.	Sourbeuse	7	62
Port Jervis, N. Y.	Delaware	5	25	Uniontown, Ky.	Ohio	9	119
Portland, Mich.	Grand	5	.....	Upper Sandusky, Ohio	Sandusky	5	20
Portland, Oreg.	Willamette	11	168	Valley Junction, Tex.	Brazos	10	148
Portsmouth, Ohio	Ohio	9	114	Valley Park, Mo.	Meramec	7	63
Poston, S. C.	Pee Dee	6	.....	Van Buren, Ark.	Arkansas	10	131
Prairie du Chien, Wis.	Mississippi	7	65	Vanceburg, Ky.	Ohio	9	.....
Priest River, Idaho	Clark Fork	11	162	Vancouver, Wash.	Columbia	11	170
Prospect, Ohio	Scioto	8	91	Vandergrift, Pa.	Kiskiminetas	8	81
Prospect, Tenn.	Elk	9	107	Van Meter, Iowa	Raccoon	8	81
Pueblo, Colo.	Arkansas	10	.....	Vestal, N. Y.	Susquehanna	5	30
Queneco, Kans.	Marais des Cygnes	7	78	Vicksburg, Miss.	Mississippi	10	142
Quincy, Ill.	Mississippi	7	67	Victoria, Tex.	Guadalupe	11	151
Radford, Va.	New	8	88	Vincennes, Ind.	Wrbnsb.	8	102
Rainbow, Tex.	Brazos	10	.....	Wabash, Ind.	.....do.	8	100
Ralston, Okla.	Arkansas	10	130	Waco, Tex.	Brazos	10	148
Randolph, Va.	Ronoke	5	34	Wahpeton, N. D.	Red of The North	5	17
Rapidan, Va.	Rapidan	5	.....	Wakefield, Kans.	Republican	7	.....
Ravenwood, W. Va.	Ohio	9	112	Wamego, Kans.	Kansas	7	73
Reading, Pa.	Schuylkill	5	24	Wapello, Iowa	Iowa	7	59
Reids, Minn.	Mississippi	7	64	Warren, Pa.	Allegheny	8	82
Red Bluff, Calif.	Sacramento	11	159	Warsaw, Mo.	Osage	7	75
Red River Landing, La.	Mississippi	10	142	Washburn, N. Dak.	Missouri	7	.....
Red Wing, Minn.	.....do.	7	64	Washington, D. C.	Potomac	5	.....
Renovo, Pa.	Susquehanna--West Branch	5	28	Washington (near), D. C.	Potomac	5	32
Resaca, Ga.	Oostanaula	6	48	Washington, Tex.	Brazos	10	148
Reserve, La.	Mississippi	10	143	Waterloo, Iowa	Cedar	6	58
Reynolds, Idaho	Henry Fork	11	162	Waterloo, Oreg.	South Santiam	11	166
Richmond, Tex.	Brazos	11	149	Waverly, Mo.	Missouri	7	79
Richmond, Va.	James	5	33	Waynesboro, Miss.	Chickasawhay	6	54
Rimini, S. C.	Santee	6	.....	Webbers Falls, Okla.	Arkansas	10	130
Rio Grande City, Tex.	Rio Grande	11	153	Weiser, Idaho	Snake	11	164
Rio Vista, Calif.	Sacramento	11	160	Weldon, N. C.	Ronoke	5	34
River Falls, Ala.	Comechah	6	48	Westfir, Oreg.	North Fork	11	165
Riverside, Tex.	Trinity	10	147	West Hartford, Vt.	White	5	22
Riverton, Ind.	Wabash	8	102	Weston, W. Va.	Monongahela--West Fork	8	83
Riverton, Va.	Shenandoah	5	32				



U. S. DEPARTMENT OF COMMERCE  
Sinclair Weeks, Secretary

WEATHER BUREAU  
F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

VOLUME XLVIII  
1952

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Community Affairs File



WASHINGTON : 1955

# DAILY RIVER STAGES-1952

## INTRODUCTION

This volume, containing the daily river stages for 1952 is the forty-eighth of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

### DAILY RIVER STAGES

Volume XLV. 1949  
XLVI. 1950  
XLVII. 1951

Volumes XXXVII to XLVIII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.



## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake Drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	SNAKE River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River.
Burlington, Iowa.....	Mississippi River and tributaries, except the Iowa and Skunk Rivers, and the Des Moines River at and above Keosauqua, Iowa, from below Muscatine, Iowa, to but not including Dam No. 24.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, and Yadkin-Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex.....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Dallas, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa and Skunk Rivers and tributaries. Des Moines River and tributaries at and above Keosauqua, Iowa.
Elkins, W. Va.....	Tygart River and tributaries at and above the Tygart River Dam, W. Va.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward to but not including the Klamath River.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo.....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.

Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State Line.
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon and California Coast drainage, from and including Umpqua River Basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries, Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.) except the Tygart River at and above Tygart River Dam, W. Va.
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River; Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah....	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, San Antonio and Lavaca Rivers and tributaries.



San Francisco, Calif.... California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.

Seattle, Wash..... Puget Sound and Washington Coast drainage, except the Columbia River.

Shreveport, La..... Red River and tributaries at and above Alexandria, La.

Sioux City, Iowa..... Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.

Spokane, Wash..... Columbia River and tributaries above and including Grand Coulee Dam.

Topeka, Kans..... Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.

Tulsa, Okla..... Arkansas River and tributaries, except the Canadian River, from the Kansas-Oklahoma line to and including Van Buren, Ark.

Vicksburg, Miss..... Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.

Washington, D. C..... Potomac and Rappahannock Rivers and tributaries.

Wichita, Kans..... Arkansas River and tributaries in Kansas.

### River Forecast Centers

Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (McMechen, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky., Sandusky River and tributaries.  
River Districts Served: Cincinnati, Ohio; Columbus, Ohio; Evansville, Ind., Huntington, W. Va.; Indianapolis, Ind.; Louisville, Ky.; Nashville, Tenn.; and Parkersburg, W. Va.

Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and tributaries.  
River Districts Served: Allentown, Pa.; Binghamton, N. Y.; Harrisburg, Pa.; Philadelphia, Pa.; Reading, Pa.

Kansas City, Mo..... Lower Missouri River Forecast Center: Missouri River and tributaries (except the North Platte and South Platte above North Platte, Nebr.) From below Bismarck, N. Dak., to and including Jefferson City, Mo.; the Marais des Cygnes (Osage) River in Kansas.  
River Districts Served: Kansas City, Mo.; Norfolk, Nebr.; Omaha, Nebr.; Sioux City, Iowa; Topeka, Kans.

Knoxville, Tenn..... Tennessee Valley Forecast Center: Tennessee River and tributaries.  
River Districts Served: Asheville, N. C.; Knoxville, Tenn.

Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to and including the Klamath River; Great Basin in Oregon.  
River Districts Served: Boise, Idaho; Medford, Oreg.; Portland, Oreg.; Seattle, Wash.; Spokane, Wash.

St. Louis, Mo..... Upper Mississippi River Forecast Center: Mississippi River and tributaries from headwaters to and including New Madrid, Mo.; the Missouri River and tributaries below Jefferson City, Mo. (except the Osage River in Kansas); the Ohio River and tributaries below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River); the Red River of the North and tributaries to Canadian line.  
River Districts Served: Burlington, Iowa; Cairo, Ill.; Des Moines, Iowa; Fargo, N. Dak.; LaCrosse, Wis.; Minneapolis, Minn.; Moline, Ill.; St. Louis, Mo.

Tulsa, Okla..... Arkansas River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado Line, except the Canadian River in New Mexico.  
River Districts Served: Little Rock, Ark.; Oklahoma City, Okla.; Tulsa, Okla.; Wichita, Kans.

(River stations, arranged by drainage areas, and miscellaneous information pertaining thereto)

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM--Continued										
Ohio Basin--Continued										
Logansport, Ind.	Wabash	35	573.28	343.2	3,760	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do.	39	504.14	301.4	7,230	11	28.4	May 19, 1943	0.3	Sept. 25, 1941
Covington, Ind.	do.	26	473.97	260.5	8,230	16	32.4	May 20, 1943	1.2	Oct. 5, 1928
Terre Haute, Ind.	do.	54	445.78	204.4	12,200	14	31.3	Mar. 27, 1913	-2.0	Feb. 8, 1892
Riverton, Ind.	do.	14	414.65	151.4	13,100	18	29.4	May 21, 1943	0.2	Sept. 27, 1941
Vincennes, Ind.	do.	36	394.43	117.2	13,700	16	29.3	May 22, 1943	1.2	June 22, 1934
Mount Carmel, Ill.	do.	69	371.46	83.9	28,600	17	31.0	Mar. 30, 1913	-0.2	Oct. 9-11, 1940
New Harmony, Ind.	do.	19	353.20	44.0	29,160	15	24.4	Jan. 30, 1937	-0.2	Sept. 30, 1941
New River, Tenn.	New	44	1,092.67	8.0	383	18	N41.2	Mar. 23, 1929		
Rock Island, Tenn.	Caney Fork	42	649.46	90.3	31,640	30	40.6	Mar. 23, 1929	0.0	Dec. 6, 1944
Williamsburg, Ky.	Cumberland	45	891.52	592.7	1,617	21	34.0	Jan. 10, 1946	-0.5	Sept. 16, 1919
Carthage, Tenn.	do.	68	437.67	308.4	10,754	40	58.7	Dec. 30, 1926	-0.4	Nov. 16, 1902
Nashville, Tenn.	do.	79	368.17	192.7	12,878	40	56.2	Jan. 1, 1927	-0.1	Sept. 14, 1887
Clarksville, Tenn.	do.	52	330.95	127.0	14,504	46	65.7	Jan. 25, 1937	-1.0	Sept. 18, 1913
Lock F, Eddyville, Ky.	do.	35	289.61	43.6	17,500	50	76.9	Jan. 26, 1937	-0.7	Oct. 14, 1894
Mendota, Va.	North Fork	47	1,330.56	39.1	493	8	17.5	June 14, 1907	0.3	Oct. 13, 1933
Bluff City, Tenn.	South Fork	53	1,368.35	34.4	813	12	15.0	May 22, 1901	-0.3	Sept. 14, 1952
Kingsport, Tenn.	do.	27	1,184.31	5.7	1,931	14	18.8	Aug. 14, 1940	-0.2	Jan. 28, 1940
Cherokee Dam (Head Water), Tenn.	Holston	11	980.00	52.3	3,429	95	94.4	May 11, 1944	0.9	Jan. 30, 1948
Embreville, Tenn.	Nolichucky	32	1,519.30	89.0	805	12	18.6	Aug. 13, 1940	0.5	Jan. 3, 1940
Asheville, N. C.	French Broad	50	1,959.90	147.3	937	9	25.6	July 16, 1916	0.0	Nov. 1, 1904
Hot Springs, N. C.	do.	19	1,302.27	108.6	1,565	13	22.5	Aug. 30, 1940	1.6	Sept. 6, 1947
Douglas Dam (Head Water), Tenn.	do.	10	1,200.00	32.3	4,541	82	81.8	July 25, 1941	1.1	Jan. 27, 1948
Bryson City, N. C.	Tuckaogee	55	1,716.54	12.6	655		16.0	Aug. 30, 1940	0.5	Oct. 26, 1952
Fontana Dam (Head Water), N. C.	Little Tennessee	8	1,530.00	61.0	1,571	180	178.9	July 23, 1949	19.4	Jan. 30, 1948
Morris Dam (Head Water), Tenn.	Clinch	17	930.00	79.8	2,912	90	101.1	Feb. 11, 1937	4.8	Jan. 14, 1940
Prospect, Tenn.	Elk	19	563.29	41.5	1,784	21	38.2	Feb. 14, 1948	0.91	Aug. 1-2, 1952
Columbia, Tenn.	Duck	46	535.52	132.8	1,208	32	51.75	Feb. 14, 1948	1.3	July 9, 1927
Knoxville, Tenn.	Tennessee	70	797.38	645.1	8,963	20	38.9	Feb. 26, 1875	-3.6	Sept. 11, 1925
Eligatoor, Tenn.	do.	18	700.00	568.1	12,470	51	45.4	Mar. 9, 1942	3.5	Oct. 8, 1935
Chickasawga Dam (Upper Lock), Tenn.	do.	13	630.00	471.0	20,790	55	55.4	May 20, 1950	43.3	Jan. 21, 1942
Chattanooga, Tenn.	do.	79	621.12	464.2	21,400	30	53.8	Mar. 1, 1875	0.0	Sept. 11-14, 1881
Guntersville, Ala.	do.	49	550.00	358.0	24,340	47	46.3	Mar. 2, 1944	-2.5	Sept. 8, 1930
Decatur, Ala.	do.	76	534.30	305.0	26,900	25	27.5	Apr. 7, 1886	-0.4	Sept. 7-13, 1925
Florence, Ala.	do.	81	401.12	256.7	30,810	18	32.5	Mar. 19, 1897	-3.0	Oct. 8, 1925
Savannah, Tenn.	do.	47	300.00	189.9	33,140	80	92.7	Jan. 2, 1927	38.8	Sept. 8, 1925
Perryville, Tenn.	do.	16	300.00	134.9	34,550	78	74.3	Feb. 17, 1948	26.7	Nov. 17, 1931
Johnsonville, Tenn.	do.	77	300.00	100.5	38,520	77	70.4	Mar. 24, 1897	18.9	Sept. 11, 1925
Kentucky Dam (Upper Lock), Ky.	do.	7	335.00	22.4	40,200	40	33.8	Jan. 24, 1950	8.8	Nov. 10, 1944
Paducah, Ky.	do.	17	286.35	21.8	40,200	34	62.4	Feb. 2, 1937	10.6	Jan. 13, 1942
Pittsburgh, Pa.	Ohio	81	694.27	981.0	19,101	25	46.0	Mar. 18, 1936	1.9	Sept. 28, 1881
Dam No. 7, Midland, Pa.	do.	41	647.20	944.5	J22,995	30	53.7	Mar. 19, 1936		
Dam No. 12, near Wheeling, W. Va.	do.	42	610.80	893.6	J24,681	36	55.2	do.	2.7	Aug. 19, 1922
Dam No. 13, McMechen, W. Va.	do.	52	602.80	884.9	J25,183	37	57.9	do.	2.2	Oct. 15, 1916
Marletta, Ohio	do.	39	567.12	809.0	35,575	35	55.0	Jan. 26, 1937	7.0	Feb. 3, 1936
Parkersburg, W. Va.	do.	55	562.01	796.4	37,914	36	58.9	Mar. 29, 1913	0.3	Sept. 10, 1894
Dam No. 19, Little Hocking, Ohio	do.	36	555.30	788.8	38,053	40	58.0	Jan. 26, 1937	2.7	Nov. 13, 1916
Dam No. 20, near Belleville, W. Va.	do.	36	549.10	778.3	39,342	45	58.6	Jan. 27, 1937	1.3	Aug. 23, 1918
Dam No. 22, Ravenswood, W. Va.	do.	38	536.00	760.1	39,843	44	62.6	do.	0.2	Sept. 15, 1918
Dam No. 25, near Addison, Ohio	do.	25	512.10	720.3	40,374	43	66.9	do.	5.2	Feb. 26, 1934
Point Pleasant, W. Va.	do.	64	514.10	715.8	40,521	40	62.8	Mar. 30, 1913	0.0	Aug. 1, 1911
Gallipolis Dam, Hocking, W. Va.	do.	16	520.00	701.8	53,300	35	52.6	Jan. 27, 1937		
Upper gage	do.	16	503.00	701.8	53,300	50	69.6	do.		
Dam No. 28, Huntington, W. Va.	do.	39	490.26	669.4	55,956	50	69.43	do.	2.8	Oct. 10, 1914
Dam No. 29, Ashland, Ky.	do.	36	483.10	661.1	60,748	51	73.6	do.	1.4	Oct. 27, 1922
Dam No. 30, near Greenup, Ky.	do.	33	475.10	641.6	61,702	52	74.7	do.	2.6	Oct. 21, 1920
Portsmouth, Ohio	do.	66	470.8	625.0	62,495	50	74.23	do.	0.9	do.
Dam No. 32, near Vanceburg, Ky.	do.	34	460.10	598.4	68,495	53	75.5	do.	3.2	Oct. 22, 1920
Dam No. 33, near Maysville, Ky.	do.	29	452.60	575.9	70,128	50	75.34	do.	2.8	Nov. 7, 1924
Dam No. 35, near Richmond, Ohio	do.	32	440.00	530.0	71,032	48	75.1	Jan. 26, 1937	2.1	Nov. 10, 1924
Dam No. 36, near Brent, Ky.	do.	27	433.60	520.1	71,166	52	79.8	do.	2.5	Oct. 30, 1927
Cincinnati, Ohio	do.	95	429.61	510.5	76,578	52	80.0	do.	1.9	Sept. 17-19, 1881
Dam No. 37, Fernbank, Ohio	do.	39	425.30	497.8	76,783	50	78.8	Jan. 25, 1937	2.8	Aug. 13, 1911
Dam No. 38, near Grant, Ky.	do.	28	417.90	477.7	82,808	51	79.6	Jan. 26, 1937	5.2	Sept. 1, 1925
Dam No. 39, Markland, Ind.	do.	37	410.60	449.3	83,170	48	73.5	do.	0.9	Sept. 4, 1925
Dam No. 41, Louisville, Ky.	do.	81	403.00	374.2	91,173	28	57.15	Jan. 27, 1937	4.8	Jan. 10, 1926
Upper gage	do.	81	374.00	374.0	91,173	55	85.4	do.	4.9	July 30, 1925
Dam No. 43, Evans Landing, Ind.	do.	30	366.10	347.8	94,483	57	87.0	do.	1.3	Sept. 12, 1925
Dam No. 44, Leavenworth, Ind.	do.	27	357.10	317.9	95,702	53	84.2	do.	0.5	Sept. 11, 1925
Dam No. 45, Addison, Ky.	do.	25	349.60	278.0	96,369	47	68.9	Jan. 28, 1937	2.8	Nov. 4, 1927
Tell City, Ind.	do.	14	347.62	253.8	96,750	38	56.95	do.		
Dam No. 46, Owensboro, Ky.	do.	30	339.10	223.7	97,270	41	54.8	Jan. 29, 1937	-0.2	July 28, 1926
Dam No. 47, Newburgh, Ind.	do.	30	330.60	203.3	97,787	38	56.6	Jan. 31, 1937	4.1	Oct. 16, 1929
Dam No. 48, near Henderson, Ky.	do.	30	328.70	188.7	107,052	42	53.75	do.	-0.3	Nov. 7, 1895
Mount Vernon, Ind.	do.	42	318.92	171.4	107,573	38	58.6	Feb. 1, 1937	1.5	Sept. 11, 1925
Dam No. 49, Uniontown, Ky.	do.	31	312.10	136.0	107,953	37	59.23	Feb. 1, 1937	2.9	Sept. 26, 1895
Dam No. 50, Fords Ferry, Ky.	do.	29	301.10	104.2	143,112	34	68.3	Feb. 2, 1937	4.4	Sept. 11, 1925
Dam No. 51, Golconda, Ill.	do.	28	294.60	77.9	143,655	40	62.6	do.	3.8	Oct. 20, 1929
Paducah, Ky.	do.	79	285.96	46.6	202,713	39	60.6	do.	-0.7	Oct. 30, 1895
Dam No. 52, Brookport, Ill.	do.	29	283.30	42.1	202,765	37	62.3	do.	2.7	Sept. 12, 1925
Dam No. 53, near Mound City, Ill.	do.	29	273.10	18.4	203,154	42	64.0	do.	5.2	Oct. 24, 1939
Cairo, Ill.	do.	92	270.62	1.7	203,943	40	59.5	Feb. 3-4, 1937	-1.0	Dec. 24, 1871
White Basin										
Gilbert, Ark.	Buffalo	29	545.08	53.7	840	30	42.0	Apr. 15, 1945	2.3	Aug. 11, 1936
Doniphan, Mo.	Current	32	322.21	50.6	2,040	12	N23.9	Mar. 12, 1935	N17.5	Aug. 4, 1934
Leopold, Mo.	Black	32	428.51	251.0	957	11	20.0	May 14, 1933	1.2	July 17, 1941
Poplar Bluff, Mo.	do.	30	317.40	210.9	1,245	16	21.1	Mar. 12, 1935	1.6	Dec. 3-5, 1944
Black Rock, Ark.	do.	49	229.56	7,323	1,323	14	31.9	Aug. 21, 1915	0.3	Sept. 29, 1932
Sugar Loaf Mountain, Ark.	Little Red	13	247.17	69.3	1,183	22	44.2	May 11, 1943	2.0	Sept. 26-28, 1943
Forsyth, Mo.	White	24	640.64	503.8	4,544	30	93.8	Apr. 16, 1945	0.67	Aug. 15, 1947
Cotter, Ark.	do.	26	409.89	401.8	6,115	21	40.9	Apr. 17, 1945	0.38	Nov. 17, 1952
Calico Rock, Ark.	do.	49	317.44	359.1	9,965	19	51.9	Jan. 31, 1916	-0.5	Aug. 9, 1934
Batesville, Ark.	do.	49	224.99	299.8	11,064	23	43.4	Feb. 1, 1916	3.2	Aug. 31, 1936
Newport, Ark.	do.	63	194.09	257.6	19,812	28	35.9	Apr. 18, 1945	-1.4	Aug. 29, 1936
Augusta, Ark.	do.	21	169.85	206.2	20,473	32				

See footnotes at end of table.



## MISSISSIPPI SYSTEM—OHIO BASIN

WARASH RIVER AT LOGANSPOUT, IND.  
GAGE ZERO, 573.28 FEET, M.S.L. FLOOD STAGE, 17 FEET.

	Day of month																															Highest or crest	Date	Lowest	Date		
1992	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
JAN	11.5	11.7	9.9	8.3	7.0	5.9	5.4	4.9	4.7	4.5	4.4	4.3	4.1	4.1	5.2	7.0	7.4	10.3	9.7	10.8	10.3	8.1	6.7	6	5.9	5.3	4.9	11.6	13.4	12.6	610.2	7	6.6	13.4	28	4.1	13
FEB	6.7	6.4	7.1	6.6	11.7	10.3	8.9	7.4	7.3	7.8	7.3	6.9	5.8	5.4	5.0	4.7	4.6	4.5	4.5	4.4	4.8	5.4	6.0	5.3	4.9	4.6	4.4	4.3	4.2	4.2	4.2	20	4.2	20	4.2	20	
MAR	4.2	4.1	4.1	4.2	5.5	6.2	5.3	4.8	4.5	4.4	6.5	13.0	13.4	12.3	10.3	7.5	6.4	5.5	7.1	9.1	7.8	6.6	6.8	8.1	7.3	6.2	5.5	5.0	4.8	4.6	4.4	13.4	13	4.1	2	4.1	2
APR	4.3	4.3	4.2	4.1	4.6	7.1	7.2	6.5	5.8	5.2	4.8	4.6	5.6	9.7	9.5	8.3	7.0	6.0	5.2	4.8	4.6	4.5	11.0	11.4	9.6	8.1	7.7	5.6	5.0	4.6	4.4	11.6	24	4.1	4	4.1	4
MAY	4.7	4.4	4.3	4.1	4.0	4.4	4.1	4.0	3.9	4.1	4.5	4.2	4.0	3.9	3.8	3.7	4.0	5.0	5.5	4.9	4.6	4.7	5.1	5.7	11.0	11.5	8.8	7.3	6.2	5.3	4.9	12.2	25	3.7	16	3.7	16
JUN	4.5	4.3	4.1	4.0	3.9	3.8	3.7	3.7	3.6	3.6	3.5	3.6	3.7	7.2	8.2	6.0	4.9	4.4	4.1	3.8	3.7	3.9	3.6	3.6	3.6	3.5	3.6	3.5	3.4	3.3	3.0	3.3	3.0	3.0	3.0	3.0	
JUL	3.4	3.3	3.3	3.4	3.3	3.3	3.2	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.3	3.5	3.3	3.2	3.4	3.6	3.5	3.4	3.3	3.2	3.1	3.1	3.1	3.6	25	3.1	13	
AUG	3.0	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0	2.9	3.1	3.2	3.2	3.1	3.5	4.0	3.6	3.4	3.5	3.6	3.9	3.9	3.3	3.2	3.1	3.0	3.0	3.0	3.0	3.0	4.0	21	2.9	7	2.9	7
SEP	2.9	3.1	3.1	3.1	3.3	3.2	3.1	3.0	3.0	3.0	3.0	3.0	2.9	2.9	3.3	3.4	3.2	3.1	3.2	3.4	4.4	4.8	4.2	3.7	3.5	3.3	3.2	3.2	3.1	3.1	3.1	4.8	22	2.9	1	2.9	1
OCT	3.0	3.0	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NOV	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DEC	.	.	.	.	.	.	.	.	4.2	3.9	3.8	4.0	5.0	4.3	3.9	3.7	3.6	3.5	3.4	3.4	3.4	3.7	4.3	4.6	4.6	4.4	4.1	3.8	3.6	3.6	3.5	.	.	.	.	.	

WARASH RIVER AT LA FAYETTE, IND.  
GAGE ZERO, 504.14 FEET, M.S.L. FLOOD STAGE, 11 FEET.

1992	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High or crest	Date	Low	Date	
JAN	G14.7	K17.4	17.6	15.9	12.4	9.5	7.4	6.5	6.0	5.7	5.4	5.1	4.9	4.6	5.0	7.7	9.4	13.1	14.7	15.3	L16.2	15.1	11.4	G 9.1	FG7.9	6.6	12.0	17.4	19.0	F18.4	F15.9	M 19.0	29	4.6	14	
FEB	11.7	9.8	9.7	11.6	16.8	17.8	16.4	14.8	12.4	12.0	11.2	9.5	7.8	7.1	6.3	6.0	5.8	5.4	5.9	6.8	7.3	7.0	6.3	5.6	5.4	5.1	4.9	4.6	4.3	4.2	4.2	4.2	4.2	4.2	4.2	
MAR	5.0	4.6	4.5	4.9	6.8	7.0	7.7	6.3	5.8	5.7	7.1	15.7	18.4	18.9	17.9	15.5	10.6	8.1	9.4	P14.0	14.0	11.7	10.0	Q11.3	11.5	9.8	9.0	7.0	6.4	5.0	5.4	5.4	5.4	5.4	5.4	
APR	5.5	5.5	5.1	5.0	5.9	8.0	11.0	10.9	8.7	5.7	6.6	6.1	7.2	14.2	S16.4	15.6	13.2	10.2	8.4	7.2	6.8	6.0	6.6	15.6	18.2	17.7	15.6	12.3	9.3	7.4	7.7	7.7	7.7	7.7	7.7	
MAY	6.5	5.9	5.5	4.9	4.6	8.2	8.9	6.7	5.1	5.6	5.6	5.4	5.9	4.7	4.4	4.2	5.1	7.8	8.4	7.8	6.4	6.0	6.1	6.6	13.0	18.2	18.5	15.8	12.4	9.4	9.4	9.4	9.4	9.4	9.4	
JUN	6.0	6.0	5.8	5.1	4.6	4.5	4.3	4.0	3.8	3.6	3.4	3.5	4.7	11.9	16.1	13.7	9.5	7.5	6.4	5.4	5.0	4.9	6.5	4.6	4.5	4.1	3.9	3.5	3.4	3.1	3.1	3.1	3.1	3.1	3.1	
JUL	3.2	3.0	2.8	3.0	3.0	3.2	2.0	2.8	3.4	3.4	3.2	2.9	2.7	2.7	2.5	2.5	2.5	2.5	2.4	2.6	2.7	2.6	2.1	2.4	2.7	2.7	2.6	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	
AUG	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	2.1	1.9	2.4	2.2	2.2	2.0	2.8	4.7	4.5	3.8	3.2	2.9	3.1	3.1	2.8	2.5	2.3	2.1	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.8	
SEP	1.8	1.7	2.0	1.9	2.0	2.2	1.9	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	2.5	2.6	2.4	2.1	2.9	3.2	2.7	2.3	2.2	2.0	2.0	1.9	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OCT	2.0	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	1.8	1.9	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
NOV	1.6	1.6	1.7	1.9	1.7	1.7	2.0	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.8	1.8	2.0	1.8	1.9	2.1	2.2	2.7	3.4	3.9	4.3	4.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
DEC	3.2	3.1	2.7	2.7	3.1	3.6	3.6	3.8	4.8	4.2	4.4	4.2	5.5	4.8	4.1	4.0	3.4	3.3	3.1	3.0	3.2	3.3	3.9	4.6	4.8	4.8	4.3	FG3.9	FG3.9	3.5	3.4	3.4	3.4	3.4	3.4	3.4

WARASH RIVER AT COVINGTON, IND.  
GAGE ZERO, 473.97 FEET, M.S.L. FLOOD STAGE, 16 FEET.

1992	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Highest or crest	Date	Lowest	Date	
JAN	616.7	18.0	19.6	M20.5	20.1	18.1	14.3	11.1	9.9	9.2	8.7	8.2	7.9	7.6	8.9	9.1	12.4	14.2	16.4	17.7	18.5	X19.2	19.0	16.5	12.4	10.4	13.6	17.0	19.4	21.4	621.9	Y	22.0	31	7.6	14
FEB	20.7	18.2	15.2	15.2	17.3	19.4	20.9	20.9	10.7	18.1	17.2	16.4	15.2	13.1	11.4	10.5	9.0	9.4	9.0	8.8	8.7	9.6	10.7	10.6	10.0	9.3	8.5	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	
MAR	7.9	7.8	7.6	7.8	9.2	10.7	10.4	10.3	9.4	8.8	10.0	15.0	17.9	20.5	21.9	21.7	20.2	16.9	14.8	15.8	17.4	X17.8	16.5	15.0	15.6	15.2	13.4	11.5	10.2	9.6	9.2	9.2	9.2	9.2	9.2	9.2
APR	8.8	8.7	8.4	8.1	8.9	11.1	13.6	.	12.9	12.0	.	.	.	.	17.7	C19.1	19.4	18.1	15.4	12.4	10.9	9.9	9.8	16.1	18.6	20.9	20.4	20.3	18.1	14.4	14.4	14.4	14.4	14.4	14.4	
MAY	11.3	10.2	9.3	8.7	8.3	8.4	11.7	10.4	9.0	8.6	9.0	8.6	8.6	7.9	7.6	7.3	8.3	10.5	11.9	11.9	10.8	9.8	9.3	9.6	13.0	17.3	20.3	21.8	20.7	18.5	14.9	14.9	14.9	14.9	14.9	
JUN	11.9	10.5	9.6	8.9	8.3	7.8	7.4	7.1	6.9	6.7	6.4	6.3	7.0	17.0	19.6	20.6	19.3	16.3	12.6	10.2	9.3	9.7	12.7	11.3	9.2	7.9	7.4	7.0	6.8	6.3	6.3	6.3	6.3	6.3	6.3	
JUL	6.0	6.0	5.8	5.7	5.6	5.6	6.0	5.7	5.7	6.3	6.6	5.8	5.4	5.2	5.0	4.9	4.8	4.8	4.7	4.6	4.7	4.9	4.9	4.7	4.3	4.6	4.9	4.8	4.7	4.5	4.3	4.3	4.3	4.3	4.3	4.3
AUG	4.2	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	4.0	4.2	4.4	4.4	4.0	3.9	4.6	7.6	6.7	5.9	5.2	5.3	5.3	5.2	4.8	4.6	4.3	4.1	4.0	4.0	3.8	3.8	3.8	3.8	3.8	
SEP	3.9	3.9	3.9	4.0	4.0	4.0	4.1	3.9	3.9	3.7	3.7	3.7	3.7	3.6	3.6	3.7	4.6	7.7	6.7	5.6	5.0	5.4	5.1	4.6	5.4	5.4	5.1	4.6	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0
OCT	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.7	4.0	4.1	4.0	4.0	3.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
NOV	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.8	4.2	4.3	4.4	4.6	6.1	6.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1
DEC	5.5	5.2	4.9	4.8	4.9	5.6	6.2	6.9	7.1	6.7	6.4	6.3	7.1	7.5	6.7	5.6	5.6	5.3	5.1	5.0	5.0	5.1	5.2	5.9	6.6	6.9	6.7	6.2	5.8	5.6	5.3	5.3	5.3	5.3	5.3	5.3

WARASH RIVER AT TERRE HAUTE, IND.  
GAGE ZERO, 445.78 FEET, M.S.L. FLOOD STAGE, 14 FEET.

1992	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High or crest	Date	Lowest	Date
JAN	12.9	614.2	14.8	15.2	15.6	15.9	15.9	15.5	11.2	9.2	7.9	7.0	6.8	6.3	6.0	5.6	7.8	10.3	11.9	12.6	13.3	13.8	14.3	14.6	14.3	11.9	15.0	15.8	16.1	16.2	16.0	16.0	16.0	16.0	16.0
FEB	16.0	17.2	17.3	16.5	16.0	16.0	16.4	16.8	17.6	17.4	16.5	15.8	15.2	14.2	12.4	10.5	9.7	8.3	7.7	7.5	7.8	8.3	8.0	7.											
MAR	6.0	5.9	5.8	5.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
APR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
MAY	14.6	11.7	8.5	7.8	7.1	6.6	6.2	6.0	5.4	5.0	4.8	4.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
JUN	15.1	11.2	9.2	7.9	6.9	6.2	6.0	5.6	5.4	5.0	4.8	4.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
JUL	5.2	4.8	4.6	4.8	4.5	4.3	4.0	4.0	4.0	4.2	4.2	4.2	3.8	3.5	3.5	3.5	3.7	3.3	3.2	3.1	3.1	3.0	3.0	3.0	2.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
AUG	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
SEP	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
OCT	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
NOV	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
DEC	3.5	3.1	2.8	2.6	2.8	2.8	3.5	3.5	3.5	4.2	4.8	4.2	3.9	4.1	4.3	3.9	3.3	3.0	2.9	2.9	2.8	2.8	2.8	2.8	2.8	3.8	3.8	3.8	3.4	3.4	3.4	3.4	3.4	3.4	

## INDEX BY STATIONS

[Omission of page number under "gauge readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Mount Vernon, Ind.	Ohio	9	121	Rock Hill, S. C.	Catawba	6	42
Mount Vernon, Wash.	Skagit	12	173	Rock Island, Tenn.	Caney Fork	8	27
Munfordville, Ky.	Green	12	98	Rockdale, N. Y.	Onondaga	5	17
Muscatine, Iowa	Mississippi	7	69	Rockland, Tex.	Heches	10	147
Naples, Tex.	Sulphur	10	137	Rockwall, Tex.	Trinity-East Fork	11	148
Nashua, N. H.	Merrimack	5	23	Rocky Mount, N. C.	Tar	6	36
Nashville, Tenn.	Cumberland	9	105	Rome, Ga.	Oostanaula	6	51
Natchez, Miss.	Mississippi	10	143	Rosser, Tex.	Trinity	11	99
Natrona, Pa.	Allegheny	8	99	Rumsey, Ky.	Green	8	99
Nebraska City, Nebr.	Missouri	11	161	Sacramento, Calif.	Sacramento	11	162
Neely, Idaho	Snake	11	161	Saginaw, Mich.	Saginaw	5	3
Neillsville, Wis.	Black	6	60	Saginaw, Oreg.	Willamette-Coast Fork	11	167
Neuse, N. C.	Neuse	6	37	St. Charles, Ark.	White	10	127
New Braunfels, Tex.	Guadalupe	11	11	St. Charles, Mo.	Missouri	8	82
Newburgh, Ind.	Ohio	9	117	St. Francis, Ark.	St. Francis	10	140
Newcomertown, Ohio	Tuscarawas	8	87	St. John, Calif.	Stony Creek	11	11
New Harmony, Ind.	Wabash	10	104	St. Joseph, Mo.	Missouri	7	81
New Madrid, Mo.	Mississippi	10	145	St. Louis, Mo.	Mississippi	7	66
New Orleans, La.	do	10	145	St. Paul, Minn.	do	7	66
Newport, Ark.	White	8	126	St. Regis, Mont.	Clark Fork	11	163
Newport, Pa.	Juniata	5	31	St. Thomas, Mo.	Osage	7	78
New Richmond, Ohio	Ohio	9	117	Salem, Oreg.	Willamette	12	170
New River, Tenn.	New	9	105	Salida, Colo.	Arkansas	10	141
Newton, Ala.	Choctawhatchee	6	49	Salina, Kans.	Smoky Hill	7	74
North Bluff, Cal.	Feather	11	160	Salmon, Idaho	Salmon	11	161
Noblesville, Ind.	White	8	100	Salton, Cal.	Klamath	8	83
Norcross, Ga.	Chattahoochee	6	47	Santa Rosa, N. Mex.	Pecos	11	163
Norfolk, Nebr.	Kikhorn	7	73	Sarah, Miss.	Coldwater	10	141
Norris Dam, Tenn.	Clutch	9	108	Savannah, Tenn.	Tennessee	9	111
North Platte, Nebr.	North Platte	7	72	Scandia, Kans.	Republican	7	7
Do	South Platte	7	72	Schenley, Pa.	Allegheny	8	99
North Bluff, N. H.	Connecticut	10	130	Selma, Ala.	Alabama	6	53
Oakland City, Ohio	North Canadian	10	130	Sebring, Pa.	Conemaugh	8	99
Olean, N. Y.	Allegheny	8	83	Seymour, Ind.	White-East Fork	8	99
Omaha, Nebr.	Missouri	7	80	Sharpville, Pa.	Shenango	8	99
Oneonta, N. Y.	Susquehanna	5	31	Sherburne, N. Y.	Chenango	5	28
Orange, Tex.	Sabine	10	174	Shoals, Ind.	White-East Fork	8	100
Orangeburg, S. C.	Edisto-North Fork	6	49	Shreveport, La.	Red	10	139
Oregon City, Oreg.	Willamette	12	170	Shubuta, Miss.	Chickasawhay	6	56
Oroville, Ohio	Feather	11	160	Sidney, Ohio	Miami	10	146
Osceola, Mo.	Osage	7	77	Siemensport, Pa.	Atchafalaya	10	146
Oswego, Kans.	Neosho	10	129	Sioux City, Iowa	Missouri	7	80
Osawatimie, Kans.	Marias des Cygnes	7	77	Smithfield, N. C.	Neuse	6	37
Otowi, N. Mex.	Rio Grande	11	154	Smithville, Tex.	Colorado	11	151
Ottawa, Kans.	Marias des Cygnes	7	77	Snohomish, Wash.	Snohomish	12	173
Ottawa, Iowa	Des Moines	7	63	South Newbury, Vt.	Connecticut	5	5
Ottumwa, Nebr.	Platte	7	73	Spalding, Idaho	Clearwater	11	165
Owensboro, Ky.	Ohio	10	121	Spencer, Ind.	White	6	164
Ozark, Ark.	Arkansas	10	133	Spokane, Wash.	Spokane	11	164
Paducah, Ky.	Ohio	9	123	Springbank	Red	10	10
Do	Tennessee	9	112	Springfield, Mass.	Connecticut	5	21
Pagosa Springs, Colo.	San Juan	11	157	Springfield, Ohio	Mad	8	95
Paintsville, Ky.	Levisa Fork	8	92	Springfield, W. Va.	Potomac-South Branch	5	21
Parkersburg, W. Va.	Ohio	9	114	Sugar Loaf Mountain, Ark.	Little Red	9	123
Parker, Pa.	Allegheny	6	84	Sullivan, Mo.	Meramec	7	61
Parkin, Ark.	Arkansas	10	140	Sunbury, Pa.	Susquehanna	7	61
Pearl River, La.	Pearl	6	59	Sutherland, Pa.	Youghiogheny	8	80
Peedee, S. C.	Pee Dee	6	40	Swan Lake, Miss.	Tallahatchie	10	141
Pelzer, S. C.	Saluda	6	40	Tarboro, N. C.	Tar	6	37
Penacook, N. H.	Contoocook	5	23	Tell City, Ind.	Ohio	9	120
Peoria, Ill.	Illinois	7	64	Terre Haute, Ind.	Wabash	9	103
Perkins, Ohio	Cimarron	10	128	The Dalles, Oreg.	Columbia	12	177
Perreysville, Pa.	Tennessee	11	111	Three Rivers, Tex.	Neuse	11	153
Peru, Ind.	Wabash	8	102	Tiffin, Ohio	Sandusky	11	8
Petersburg, Ind.	White	8	102	Tipp City, Ohio	Wiam	8	8
Philadelphia, Pa.	Schuylkill	5	26	Topeka, Kans.	Kansas	7	7
Philippi, W. Va.	Tygart	8	85	Towanda, Pa.	Susquehanna	5	33
Pierre, S. Dak.	Missouri	7	79	Tracy, Iowa	Des Moines	7	63
Pikeston, Ohio	Scioto	8	93	Trenton, Mo.	Thompson Fork	7	7
Pikeville, Ky.	Levisa Fork	8	92	Trenton, N. J.	Delaware	5	23
Pine Bluff, Ark.	Arkansas	10	134	Tribes Hill, N. Y.	Mohawk	5	5
Piqua, Ohio	Miami	8	96	Trinidad, Tex.	Trinity	12	147
Pittsburgh, Pa.	Ohio	9	112	Trinidad, Wash.	Columbia	12	177
Pleasant Hill, Ohio	Stillwater	8	95	Tulsa, Okla.	Arkansas	10	133
Plymouth, N. H.	Pemigewasset	5	174	Tuscaloosa Lock and Dam, Ala.	Black Warrior	6	5
Point Pleasant, W. Va.	Ohio	9	114	Umatilla, Oreg.	Columbia	12	177
Poplar Bluff, Mo.	Black	9	124	Unadilla, N. Y.	Susquehanna	5	173
Port Jervis, N. Y.	Wisconsin	7	61	Union, Mo.	Bourbeuse	7	61
Portland, Mich.	Delaware	5	27	Uniontown, Ky.	Ohio	8	120
Portland, Oreg.	Grand	5	27	Upper Sandusky, Ohio	Sandusky	9	9
Portland, Ohio	Willamette	12	170	Valley Junction, Tex.	Braxos	11	150
Portsmouth, Ohio	Ohio	9	116	Valley Park, Mo.	Meramec	7	61
Poston, S. C.	Pee Dee	6	40	Van Buren, Ark.	Arkansas	10	133
Prairie du Chien, Wis.	Mississippi	7	68	Vanceburg, Ky.	Ohio	9	9
Prairie River, Idaho	Clark Fork	11	184	Vancouver, Wash.	Columbia	12	177
Prospect, Ohio	Scioto	8	93	Vandergrift, Pa.	Kiskiminetas	8	8
Prospect, Tenn.	Elk	8	109	Van Meter, Iowa	Raccoon	7	61
Pueblo, Colo.	Arkansas	10	134	Waco, N. Y.	Susquehanna	10	14
Queenow, Kans.	Marias des Cygnes	7	77	Vicksburg, Miss.	Mississippi	10	14
Quincy, Ill.	Mississippi	7	70	Victoria, Tex.	Guadalupe	11	151
Radford, Va.	New	8	90	Vincennes, Ind.	Wabash	9	103
Rainbow, Tex.	Braxos	11	150	Wabash, Ind.	do	10	103
Ramaton, Ohio	Arkansas	10	132	Waco, Tex.	Braxos	11	150
Randolph, Va.	Rosnoke	5	35	Wahpeton, N. D.	Red of the North	5	1
Rapidan, Va.	Rapidan	5	35	Wakefield, Kans.	Republican	7	7
Ravenswood, W. Va.	Ohio	9	114	Wamego, Kans.	Kansas	7	7
Reading, Pa.	Schuylkill	5	26	Wapello, Iowa	Iowa	7	6
Reads Landing, Minn.	Mississippi	7	67	Warren, Pa.	Allegheny	8	8
Red Bluff, Calif.	Sacramento	11	161	Warsaw, Mo.	Osage	7	77
Red River Landing, La.	Mississippi	10	144	Washburn, N. Dak.	Missouri	7	7
Red Wing, Minn.	do	10	67	Washington, D. C.	Potomac	5	3
Renovo, Pa.	Susquehanna-West Branch	5	30	Washington (near), D. C.	do	5	3
Resaca, Ga.	Oostanaula	6	50	Washington, Tex.	Braxos	7	7
Reserve, La.	Mississippi	10	144	Waterloo, Iowa	Cedar	8	8
Rexburg, Idaho	Henrys Fork	11	164	Waterloo, Oreg.	South Santiam	11	16
Richmond, Tex.	Braxos	11	150	Waverly, Mo.	Missouri	7	8
Richmond, Va.	James	5	35	Waynesboro, Miss.	Chickasawhay	6	5
Richwood, C.	Sant	6	50	Webbers Falls, Okla.	Arkansas	10	133
Rio Grande City, Tex.	Rio Grande	11	155	Weiser, Idaho	Kansas	11	16
Rio Vista, Calif.	Sacramento	11	162	Weldon, N. C.	Rosnoke	5	3
River Falls, Ala.	Concub	6	50	Westfir, Oreg.	North Fork	11	16
Riverside, Tex.	Trinity	11	149	West Hartford, Vt.	White	5	16
Riverton, Ind.	Wabash	8	104	Weston, W. Va.	Monongahela-West Fork	5	8
Riverton, Va.	Shenandoah	5	33	West Point, Ga.	Chattahoochee	6	6



U. S. DEPARTMENT OF COMMERCE  
Sinclair Weeks, Secretary

WEATHER BUREAU  
F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

REFERENCE  
DO NOT CIRCULATE

VOLUME XLIX  
1953

Community Affairs File



WASHINGTON : 1956

# DAILY RIVER STAGES-1953

## INTRODUCTION

This volume, containing the daily river stages for 1953 is the forty-ninth of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

### DAILY RIVER STAGES

Volume XLV. 1949	Volume XLVII. 1951
XLVI. 1950	XLVIII. 1952

Volumes XXXVII to XLIX can be bought from the Superintendent of Documents, Washington, D.C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.



## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake Drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River.
Burlington, Iowa.....	Mississippi River and tributaries, except the Iowa and Skunk Rivers, and the Des Moines River at and above Keosauqua, Iowa, from below Muscatine, Iowa, to but not including Dam No. 24.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, and Yadkin-Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex.....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa and Skunk Rivers and tributaries. Des Moines River and tributaries at and above Keosauqua, Iowa.
Elkins, W. Va.....	Tygart River and tributaries at and above the Tygart River Dam, W. Va.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward to but not including the Klamath River.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fort Worth, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.

Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan Drainage from and including Menominee River southward to Wisconsin-Illinois State Line.
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon and California Coast drainage. from and including Umpqua River Basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.) except the Tygart River at and above Tygart River Dam, W. Va.
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River, Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Rochester, N. Y.....	Genesee River and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah....	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.



## INTRODUCTION

San Antonio, Tex..... Guadalupe, San Antonio and Lavaca Rivers and tributaries.  
 San Francisco, Calif.... California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.  
 Seattle, Wash..... Puget Sound and Washington Coast drainage, except the Columbia River.  
 Shreveport, La..... Red River and tributaries at and above Alexandria, La.  
 Sioux City, Iowa..... Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.  
 Spokane, Wash..... Columbia River and tributaries above and including Grand Coulee Dam.  
 Topeka, Kans..... Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.  
 Tulsa, Okla..... Arkansas River and tributaries, except the Canadian River, from the Kansas-Oklahoma State line to and including Van Buren, Ark.  
 Vicksburg, Miss..... Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.  
 Washington, D. C..... Potomac and Rappahannock Rivers and tributaries.  
 Wichita, Kans..... Arkansas River and tributaries in Kansas.

## River Forecast Centers

Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (McMechen, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky., Sandusky River and tributaries.  
 River Districts Served: Cincinnati, Ohio; Columbus, Ohio; Evansville, Ind., Huntington, W. Va.; Indianapolis, Ind.; Louisville, Ky.; Nashville, Tenn.; and Parkersburg, W. Va.  
 Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and tributaries.  
 River Districts Served: Allentown, Pa.; Binghamton, N. Y.; Harrisburg, Pa.; Philadelphia, Pa.; Reading, Pa.  
 Kansas City, Mo..... Lower Missouri River Forecast Center: Missouri River and tributaries (except the North Platte and South Platte above North Platte, Nebr.) From below Bismarck, N. Dak., to and including Jefferson City, Mo.; the Marais des Cygnes (Osage) River in Kansas.  
 River Districts Served: Kansas City, Mo.; Norfolk, Nebr.; Omaha, Nebr.; Sioux City, Iowa; Topeka, Kans.  
 Knoxville, Tenn..... Tennessee Valley Forecast Center: Tennessee River and tributaries.  
 River Districts Served: Asheville, N. C.; Knoxville, Tenn.  
 Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to and including the Klamath River; Great Basin in Oregon.  
 River Districts Served: Boise, Idaho; Medford, Oreg.; Portland, Oreg.; Seattle, Wash.; Spokane, Wash.  
 St. Louis, Mo..... Upper Mississippi River Forecast Center: Mississippi River and tributaries from headwaters to and including New Madrid, Mo.; the Missouri River and tributaries below Jefferson City, Mo. (except the Marais des Cygnes (Osage) River in Kansas); the Ohio River and tributaries below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River); the Red River of the North and tributaries to Canadian line.  
 River Districts Served: Burlington, Iowa; Cairo, Ill.; Des Moines, Iowa; Fargo, N. Dak.; LaCrosse, Wis.; Minneapolis, Minn.; Moline, Ill.; St. Louis, Mo.  
 Tulsa, Okla..... Arkansas River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado Line, except the Canadian River in New Mexico.  
 River Districts Served: Little Rock, Ark.; Oklahoma City, Okla.; Tulsa, Okla.; Wichita, Kans.

## RIVER STATIONS AND MISCELLANEOUS INFORMATION

(River stations, arranged by drainage areas, and miscellaneous information pertaining thereto)

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extrema stages from gage readings <sup>5</sup>				
							Highest	Date	Lowest	Date	
MISSISSIPPI SYSTEM--Continued								Feet		Feet	
Ohio Basin--Continued								Feet		Feet	
Parker, Pa.	Allegheny	69	845.14	85.0	7,671	20	27.1	Mar. 26, 1913	0.1	Sept. 8, 1886	
Lock No. 3, Acronia, Pa. (Lower gage)	do.	19	710.21	14.7	11,517	25	45.2	Mar. 18, 1936	11.1	July 17, 1936	
Elkins, W. Va.	Tygart	5	1,901.65	86.0	266	17	16.9	Dec. 16, 1948	3.74	Oct. 20, 1953	
Phillippi, W. Va.	do.	35	1,280.55	46.0	916	17	22.72	Feb. 14, 1948	1.08	Oct. 10-12, 1953	
Weston, W. Va.	West Fork	51	993.84	69.0	133	17	25.5	June 25, 1950	0.79	Aug. 9, 1952	
Confluence, Pa.	Youghiogheny	81	1,302.77	67.0	1,029	12	121.9	Mar. 29, 1924	10.7	Sept. 6, 1881	
Connellsville, Pa.	do.	46	860.13	45.0	1,326	16	20.3	Mar. 18, 1936	0.1	Sept. 23, 1908	
Sutersville, Pa.	do.	36	733.36	13.5	1,715	20	30.65	do.	1.4	Sept. 27, 1939	
Lock No. 15, Houli, W. Va. (Lower gage)	Monongahela	50	838.91	124.2	2,437	28	29.4	Jan. 2, 1919	0.7	Dec. 6, 1908	
Lock No. 7, Greensboro, Pa. (Lower gage)	do.	66	753.00	84.8	4,407	37	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930	
Lock No. 4, Charleroi, Pa. (Lower gage)	do.	68	716.17	41.5	5,213	28	43.53	July 11, 1888	4.73	Nov. 18, 1887	
McKeesport, Pa.	do.	41	718.25	14.6	7,161	12	28.8	Mar. 18, 1936	0.6	Aug. 14, 1944	
Beaver Falls, Pa.	Beaver	46	727.48	5.5	3,106	15	17.4	Mar. 27, 1913	1.7	Aug. 20-25, 1951	
Gallax, Va.	Tuscarawas	26	780.00	21.1	2,436	16	21.2	Aug. 9, 1935	1.63	Sept. 30, 1953	
Zanesville, Ohio (Lower gage)	Muskingum	63	665.30	75.8	6,840	25	51.8	Mar. 27, 1913	1.08	Oct. 14, 1953	
McConnellsville, Ohio (Lower gage)	do.	41	650.31	48.2	7,411	23	33.6	Nov. 16, 1926	-0.9	Nov. 10, 1908	
Gleenville, W. Va.	Little Kanawha	53	697.79	103.0	3,645	23	33.6	Apr. 17, 1939	-3.0	Nov. 4, 1906	
Creston, W. Va.	do.	53	621.71	48.0	1,214	20	33.2	Mar. 7, 1945	2.0	Aug. 13, 1941	
Athens, Ohio	Hocking	38	615.59	31.6	944	17	23.0	June 27, 1940	0.84	Oct. 26-27, 1953	
Camden on Gauley, W. Va.	Gauley	38	2,003.28	71.0	238	23	18.2	Aug. 14, 1940	0.6	July 9, 1930	
Radford, Va.	New	58	1,712.36	145.0	2,748	14	35.96	do.	1.08	Aug. 25, 1944	
Glen Lyn, Va.	do.	28	1,489.76	95.0	3,859	15	27.5	do.	2.0	Sept. 29, 1926	
Hinton, W. Va.	do.	67	1,356.44	63.4	6,288	14	29.2	Sept. 13, 1878	0.23	Sept. 25-28, 1953	
Clay, W. Va.	Elk	39	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	L-0.06	Oct. 16-Nov. 8, 1953	
Kanawha Falls, W. Va.	Kanawha	40	623.20	95.0	8,415	25	29.6	Aug. 15, 1940	-0.95	Aug. 15, 1930	
London Dam, London, W. Va.	do.	20	501.00	82.8	8,552	43	40.9	do.	-0.1	Sept. 15, 1901	
Charleston, W. Va.	do.	81	558.65	58.4	10,495	34	41.6	Sept. 14, 1878	-0.1	Oct. 10, 1923	
Logan, W. Va.	Guyandot	32	639.08	81.4	859	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923	
Kermit, W. Va.	Tug Fork	23	574.77	35.5	1,268	38	39.2	Feb. 3, 1939	1.4	Oct. 4, 1920	
Pikeville, Ky.	Lewis Fork	49	633.18	88.5	1,225	36	48.5	Mar. 23, 1929	0.1	Oct. 5, 1951	
Palatka, Ky.	do.	26	566.84	38.5	1,225	40	42.15	Feb. 4, 1939	1.1	July 23, 1930	
Louisville, Ky.	Big Sandy	65	516.46	26.6	3,821	45	48.0	Feb. 5, 1939	0.7	Nov. 18, 1884	
Delaware, Ohio	Olestantangy	44	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921	
La Rue, Ohio	Scioto	38	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.8	June 5, 1941	
Prospect, Ohio	do.	47	891.72	172.2	554	10	15.0	Mar. 22, 1927	0.2	Oct. 2, 1910	
Columbus, Ohio	do.	56	700.03	131.9	1,613	22	122.9	Mar. 25, 1913	-0.8	July 27, 1923	
Circleville, Ohio	do.	42	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.42	Oct. 4, 1953	
Chillicothe, Ohio	do.	46	594.02	70.4	3,647	16	39.8	do.	0.85	Sept. 27, 1944	
Pikeston, Ohio	do.	11	533.52	35.0	5,824	15	27.8	Mar. 7, 1945	-0.71	Sept. 13, 1953	
Kings Mills, Ohio	Little Miami	41	587.10	31.2	1,048	17	26.77	Apr. 20, 1940	0.5	July 3, 1914	
Cynthiana, Ky.	South Fork	37	688.52	46.0	641	20	23.3	Apr. 13, 1948	0.5	June 15, 1936	
Farmers, Ky.	Licking	38	646.55	172.0	826	25	31.1	Feb. 9, 1918	-1.0	July 13-14, 1945	
Falmouth, Ky.	do.	67	511.16	51.2	2,267	28	41.6	Apr. 14, 1948	1.0	Oct. 14-27, 1930	
Pleasant Hill, Ohio	Stillwater	38	616.55	29.2	502	13	17.5	Jan. 15, 1937	0.6	July 26, 1941	
Springfield, Ohio	Mad.	39	681.42	23.6	485	11	18.5	Jan. 15, 1937	1.2	Dec. 4, 1944	
Brookville, Ind.	Whitewater	36	595.71	27.0	1,230	20	25.56	Feb. 26, 1929	0.1	Sept. 25, 1941	
Sidney, Ohio	Miami	40	924.65	134.8	545	12	14.4	Mar. 20, 1927	-0.2	Sept. 23, 1940	
Piqua, Ohio	do.	43	844.00	122.1	850	17	29.1	Mar. 25, 1913	0.7	Sept. 17, 1941	
Tipp City, Ohio	do.	31	786.77	104.5	955	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941	
Dayton, Ohio	do.	61	721.01	84.5	2,615	21	31.7	Jan. 22, 1937	-0.1	Sept. 28, 1941	
Miamisburg, Ohio	do.	31	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1929	
Franklin, Ohio	do.	31	658.41	61.3	2,731	16	16.7	do.	0.0	Nov. 5, 1944	
Middletown, Ohio	do.	31	626.00	53.6	3,162	14	17.5	Feb. 27, 1929	-1.7	Oct. 21, 26, 1932	
Hamilton, Ohio	do.	43	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 26, 1932	
Hazard, Ky.	North Fork	29	839.76	96.0	465	20	35.0	May 30, 1927	0.21	Oct. 6, 1952	
Jackson, Ky.	do.	26	697.67	46.0	1,105	29	43.1	Feb. 4, 1939	2.9	Nov. 22, 1953	
Lock No. 14, Heidelberg, Ky.	Kentucky	38	627.20	249.0	2,639	30	35.6	Mar. 27, 1913	8.2	Oct. 25-28, 1953	
Lock No. 10, Ford, Ky.	do.	51	556.80	176.4	3,948	30	35.1	Mar. 29, 1913	4.7	Nov. 24-26, 1953	
Lock No. 7, Highbridge, Ky.	do.	53	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	3.2	Nov. 1, 1908	
Lock No. 4, Frankfort, Ky.	do.	65	462.17	65.0	5,396	31	47.56	Mar. 24, 1952	20.0	Oct. 18, 1923	
Bowling Green, Ky.	Barren	30	409.83	37.6	1,680	28	44.63	Jan. 14, 1950	1.7	Oct. 4, 1928	
Dundee, Ky.	Rough	14	393.18	62.5	752	25	29.0	Jan. 14, 1950	1.7	Oct. 4, 1928	
Munfordville, Ky.	Green	29	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	6.1	Sept. 10, 1919	
Lock No. 6, Brownsville, Ky.	do.	47	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	5.0	Sept. 17, 1902	
Lock No. 4, Woodbury, Ky.	do.	55	373.80	149.5	5,446	33	59.0	Jan. 19, 1937	3.7	July 28, 1902	
Lock No. 2, Runney, Ky.	do.	55	343.64	62.8	7,601	34	54.42	Jan. 31, 1937	0.26	Aug. 28, 1936	
Seymour, Ind.	East Fork	31	550.67	167.6	32,333	14	19.74	Jan. 5, 1949	-2.0	Jan. 1, 1931	
Williams, Ind.	do.	33	472.56	79.2	4,690	10	25.0	Mar. 28, 1913	1.2	Aug. 24, 1936	
Shoals, Ind.	do.	46	442.25	56.1	34,954	25	42.2	Mar. 25, 1913	3.0	Aug. 29, 1914	
Anderson, Ind.	White	43	825.02	285.7	3,401	10	23.6	Mar. 26, 1913	2.0	Sept. 17-21, 1941	
Noblesville, Ind.	do.	40	738.18	262.0	3,837	14	20.1	Jan. 16, 1937	0.88	Sept. 25, 30, 1941	
Indianapolis, Ind.	do.	43	672.92	238.4	1,610	12	29.5	do.	0.88	Oct. 1, 1941	
Spencer, Ind.	do.	28	526.04	165.9	2,980	14	23.2	Mar. 27, 1913	5.3	Oct. 22, 1941	
Elliotson, Ind.	do.	46	472.94	129.8	4,470	18	31.3	Jan. 8, 1950	1.7	Jan. 2, 1945	
Edwardsport, Ind.	do.	31	433.20	84.2	5,000	12	26.3	Jan. 22, 1937	0.0	Aug. 26, 1936	
Petersburg, Ind.	do.	19	400.00	47.8	3,113	16	28.38	Jan. 22, 1937	0.5	Sept. 30, 1941	
Bluffton, Ind.	do.	27	383.23	18.9	3,119	10	31.6	Jan. 22, 1937	0.2	July 26, 1934	
Wabash, Ind.	Wabash	43	793.01	323.9	1,350	10	24.07	Mar. 26, 1913	1.66	Aug. 4-5, 1934	
Wabash, Ind.	do.	31	642.66	376.6	3,173	12	24.22	May 18, 1943	1.66	Aug. 4-5, 1934	
Peru, Ind.	do.	9	622.73	362.4	32,655	20	30.2	Mar. 23, 1929	1.4	Sept. 10, 1944	
Logansport, Ind.	do.	36	573.28	343.2	33,751	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914	
La Fayette, Ind.	do.	40	504.14	301.4	37,247	11	28.4	May 19, 1943	0.3	Sept. 25, 1941	
Covington, Ind.	do.	27	473.97	260.5	38,208	16	32.4	May 20, 1943	1.2	Oct. 5, 1928	
Terre Haute, Ind.	do.	55	445.78	204.4	12,200	14	31.3	Jan. 27, 1913	-2.0	Feb. 6, 1892	
Riverton, Ind.	do.	15	414.65	151.4	13,100	18	29.36	May 21, 1943	0.2	Sept. 27, 1941	
Vincennes, Ind.	do.	37	394.43	117.2	13,700	16	29.33	May 22, 1943	1.2	June 25, 1934	
Mount Carmel, Ill.	do.	70	371.46	83.9	28,600	17	31.0	Mar. 30, 1913	-0.2	Oct. 9-11, 1940	
New Harmony, Ind.	do.	20	353.20	44.0	29,160	15	24.4	Jan. 30, 1937	-0.2	Sept.	







# INDEX BY STATIONS

173

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Nellisville, Wis.	Black	6	58	St. Charles, Ark.	White	9	124
Neuse, N. C.	Neuse	6	37	St. Charles, Mo.	Missouri	7	80
New Braunfels, Tex.	Guadalupe	10		St. Francis, Ark.	St. Francis	10	137
Newburgh, Ind.	Ohio	9		St. Helens, Ore.	Columbia	11	168
Newcomerstown, Ohio	Tuscarawas	8	85	St. John, Calif.	Stony Creek	11	
New Harmony, Ind.	Wabash	8	101	St. Joseph, Mo.	Missouri	7	78
New Madrid, Mo.	Mississippi	10	139	St. Louis, Mo.	Mississippi	7	69
New Orleans, La.	do	10	142	St. Paul, Minn.	do	7	64
Newport, Ark.	White	9	123	St. Regis, Mont.	Clark Fork	11	159
Newport, Pa.	Johns	5	30	St. Thomas, Mo.	Osage	7	76
New Richmond, Ohio	Ohio	9	114	Salem, Oreg.	Willamette	11	165
New River, Tenn.	New	8		Salida, Colo.	Arkansas	9	
Newton, Ala.	Choctawhatchee	6	48	Salina, Kans.	Smoky Hill	7	72
Nicolaus, Calif.	Feather	11	157	Salmon, Idaho	Salmon	11	160
Noblesville, Ind.	White-West Fork	8	97	Santa Rosa, N. Mex.	Pecos	10	150
Norcross, Ga.	Chattahoochee	6	45	Savannah, N. C.	Coldwater	10	138
Norfolk, Nebr.	Elkhorn	7	71	Savannah, Tenn.	Tennessee	9	108
Norris Dam, Tenn.	Clinch	9	105	Scandia, Kans.	Republican	7	
North Platte, Nebr.	North Platte	7	70	Schenectady, N. Y.	Mohawk	5	25
Do	South Platte	7	70	Selma, Ala.	Alabama	6	52
North Stratford, N. H.	Connecticut	5	23	Seymour, Ind.	White-East Fork	8	96
Oklahoma City, Okla.	North Canadian	9	127	Sherburne, N. Y.	Chenango	5	27
Olean, N. Y.	Allegheny	7	81	Shoals, Ind.	White-East Fork	10	136
Omaha, Nebr.	Missouri	7	78	Shreveport, La.	Red	8	92
Oneonta, N. Y.	Susquehanna	5	30	Shubuta, Miss.	Chickasaw	6	55
Orange, Tex.	Sabine	10	144	Sidney, Ohio	Miami	8	92
Orangeburg, S. C.	Edisto-North Fork	6		Slimesport, La.	Atchafalaya	10	143
Oregon City, Oreg.	Willamette	11	165	Sioux City, Iowa	Missouri	7	78
Osceola, Mo.	Osage	7	75	Smithfield, N. C.	Neuse	6	37
Oswego, Kans.	Neosho	9	126	Smithville, Tex.	Colorado	10	148
Oswatimie, Kans.	Marais des Cygnes	7		Snookish, Wash.	Snookish	11	168
Ottawa, Kans.	Marais des Cygnes	7		South Newbury, W. Va.	Connecticut	5	168
Ottumwa, Iowa	Clinton	7	61	Spaulding, Idaho	Clearwater	11	161
Overton, Nebr.	Platte	7		Spencer, Ind.	West Fork	8	98
Owensboro, Ky.	Ohio	9	117-118	Spokane, Wash.	Spokane	11	160
Ozark, Ark.	Arkansas	10	130	Springbank, Ark.	Red	10	
Paducah, Ky.	Ohio	9	119	Springfield, Mass.	Connecticut	5	24
Do	Tennessee	9	109	Springfield, Ohio	Mad.	8	92
Pagosa Springs, Colo.	San Juan	11	154	Springfield, W. Va.	Potomac-South Branch	8	
Paintsville, Ky.	Ohio	9	110	Sugar Loaf Mountain, N. Ark.	Little Red	9	122
Parkersburg, W. Va.	Ohio	9	110	Sullivan, Mo.	Meramec	7	63
Parker, Pa.	Allegheny	8	82	Sunbury, Pa.	Susquehanna	5	32
Parkin, Ark.	St. Francis	10	137	Sutersville, Pa.	Youghiogheny	8	83
Pearl River, La.	Pearl	6	57	Swan Lake, Miss.	Tallahatchie	10	138
Peedee, S. C.	Pee Dee	6	39	Tarboro, N. C.	Tar	6	36
Pelzer, S. C.	Saluda	6	40	Tell City, Ind.	Ohio	10	117
Penacook, N. H.	Contoocook	5	22	The Dalles, Oreg.	Columbia	8	100
Pennington, Ala.	Tombigbee	6	54	Three Rivers, Tex.	Nueces	11	167
Peoria, Ill.	Illinois	7	62	Tiffin, Ohio	Sandusky	10	150
Perkins, Okla.	Clairton	9	125	Tipp City, Ohio	Miami	8	
Perryville, Tenn.	Tennessee	9	108	Topeka, Kans.	Kansas	7	73
Peru, Ind.	Wabash	8	99	Towanda, Pa.	Susquehanna	5	32
Petersburg, Ind.	White	8	99	Tracy, Ind.	Des Moines	7	51
Philadelphia, Pa.	Schuylkill	5	26	Trenton, Mo.	Thompson Fork	7	74
Philippi, W. Va.	Tygart	8	82	Trenton, N. J.	Delaware Fork	5	27
Pierre, S. Dak.	Sioux	7	77	Tribes Hill, N. Y.	Mohawk	5	24
Pikeston, Ohio	Scioto	8		Trinidad, Tex.	Trinity	10	146
Pikeville, Ky.	Levisa Fork	8	89	Trinidad, Wash.	Columbia	11	167
Pine Bluff, Ark.	Arkansas	10	131	Tulsa, Okla.	Arkansas	9	129
Piqua, Ohio	Miami	8	93	Tuscaloosa Lock and Dam, Ala.	Black Warrior	6	53
Pittsburgh, Pa.	Ohio	9	109	Umatilla, Oreg.	Columbia	11	167
Pleasant Hill, Ohio	Stillwater	8	92	Uadilla, N. Y.	Susquehanna	5	31
Plymouth, N. H.	Penicewasset	8	22	Union, Mo.	Bourbeuse	7	63
Point Pleasant, W. Va.	Ohio	9	111	Uniontown, Ky.	Ohio	9	118-119
Poplar Bluff, Mo.	Black	9	121	Upper Sandusky, Ohio	Sandusky	5	21
Portage, Wis.	Wisconsin	6	59	Valley Junction, Tex.	Braxton	10	147
Port Jervis, N. Y.	Delaware	5	26	Valley Park, Mo.	Meramec	7	64
Portland, Mich.	Grand	5		Van Buren, Ark.	Arkansas	9	130
Portland, Oreg.	Willamette	11	166	Vancouver, Wash.	Columbia	11	168
Portsmouth, Ohio	Ohio	9	113	Vandergrift, Pa.	Kiskiminetas	7	61
Poston, S. C.	Pea Dee	6	36	Van Meter, Iowa	Raccoon	7	80
Prairie du Chien, Wis.	Mississippi	7	66	Vestal, N. Y.	Susquehanna	5	31
Priest River, Idaho	Clark Fork	11	159	Vicksburg, Miss.	Mississippi	10	140
Prospect, Ohio	Scioto	8	90	Victoria, Tex.	Guadalupe	10	150
Prospect, Tenn.	Elk	9	105	Victor, Ind.	Wabash	10	101
Pueblo, Colo.	Arkansas	9		Wabash, Ind.	do	8	99
Queenemo, Kans.	Marais des Cygnes	7		Waco, Tex.	Braxton	10	147
Quincy, Ill.	Mississippi	8	68	Wahpeton, N. D.	Red of the North	5	18
Radford, Va.	Mississippi	8	67	Wakefield, Kans.	Republicans	7	
Rainbow, Tex.	Braxton	10		Wamego, Kans.	Kansas	7	73
Railston, Okla.	Arkansas	9	129	Wapello, Iowa	Iowa	6	60
Randle, Wash.	Comixit	11	166	Warren, Pa.	Allegheny	7	81
Randolph, Va.	Roanoke	5	35	Warsaw, Mo.	Osage	7	75
Rapidan, Va.	Rapidan	5		Washington, N. Dak.	Potomac	5	
Ravenswood, W. Va.	Ohio	9	121	Washington (near), D. C.	Potomac	5	34
Reading, Pa.	Schuylkill	5	26	Washington, Tex.	Braxton	10	147
Reeds Landing, Minn.	Mississippi	7	65	Waterloo, Iowa	Cedar	6	59
Red Bluff, Calif.	Sacramento	11	157	Waterloo, Oreg.	South Santiam	11	163
Red River Landing, La.	Mississippi	10	141	Waverly, Mo.	Four	7	79
Red Wing, Minn.	do	7	65	Waynesboro, Miss.	Chickasaw	6	55
Renovo, Pa.	Susquehanna-West Branch	5	29	Webbers Falls, Okla.	Arkansas	9	129
Resaca, Ga.	Oostanaula	6	49	Weiser, Idaho	Snake	11	162
Reserve, La.	Mississippi	10	141	Weldon, N. C.	Roanoke	5	35
Rexburg, Idaho	Henry's Fork	11	160	West Cameron, N. Y.	Canastota	5	
Richmond, Tex.	James	5	35	Westfir, Oreg.	North Fork	11	162
Richmond, Va.	James	5		West Hartford, Vt.	White	5	23
Rimail, S. C.	Santee	6		Weston, W. Va.	Monongahela-West Fork	8	83
Rio Grande City, Tex.	Rio Grande	10	152	Whitecliffs, Ark.	Chattahoochee	8	46
Rio Vista, Calif.	Sacramento	11	158	Whitefield, Ohio	Elkhorn	7	71
River Falls, Ala.	Conecuh	6	49	White River Junction, Vt.	North Canadian	9	128
Riverside, Tex.	Trinity	10	146	Whitfield, Ala.	Coosa	6	51
Riverton, Ind.	Wabash	8	101	Whitesboro, N. C.	Colorado	10	149
Riverton, Va.	Shenandoah	5	33	Whiteson, Oreg.	Ohio	9	110
Rock Hill, S. C.	Catawba	6	41	Whitney Point, N. Y.	Salmon	11	160
Rock Island, Tenn.	Caney Fork	8		Wichita, Kans.	Canadian	10	134
Rockdale, N. Y.	Unadilla	5	27	Wilkes-Barre, Pa.	Connecticut	5	23
Rockland, Tex.	Neches	10	145		Tombigbee	6	54
Rockwall, Tex.	Trinity-East Fork	10	145		South Yamhill	11	164
Rocky Mount, N. C.	Tar	6	36		Toughhoga	5	27
Rome, Ga.	Oostanaula	6	49		Arkansas	9	129
Rosier, Tex.	Trinity	10			Susquehanna	5	32
Rosney, Ky.	James	8	96				
Sacramento, Calif.	Sacramento	11	158				
Saginaw, Mich.	Saginaw	5	20				
Saginaw, Oreg.	Willamette-Coast Fork	11					



U. S. DEPARTMENT OF COMMERCE  
Sinclair Weeks, Secretary

WEATHER BUREAU  
F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

REFERENCE  
DO NOT CIRCULATE

VOLUME L  
1954

Community Affairs File



WASHINGTON : 1956

# DAILY RIVER STAGES-1954

## INTRODUCTION

This volume, containing the daily river stages for 1954 is the fiftieth of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS

#### OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

#### DAILY RIVER STAGES

Volume XLV. 1949	Volume XLVII. 1951	Volume XLIX. 1953
XLVI. 1950	XLVIII. 1952	

Volumes XXXVII to L can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.



## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River.
Burlington, Iowa.....	Mississippi River and tributaries, except the Iowa and Skunk Rivers, and Des Moines River at and above Keosauqua, Iowa, from below Muscatine, Iowa to but not including Dam No. 24.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 24 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Neb.
Des Moines, Iowa.....	Iowa and Skunk Rivers and tributaries. Des Moines River and tributaries above Keosauqua, Iowa.
Dodge City, Kans.....	Arkansas River and tributaries from the Colorado-Kansas State line, downstream to and including Great Bend, Kans.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward except the Klamath River and tributaries above the California-Oregon State line.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fort Worth, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other Connecticut rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River and tributaries above Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Ignace, Mich. eastward to Wisconsin-Michigan State line (including Montreal River and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.

Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon Coast drainage southward from and including Umpqua River; the Klamath River and tributaries above the California-Oregon State line; the Great Basin in Oregon except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Neb.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.).
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River, Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Rochester, N. Y.....	Genesee River and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River tributaries in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah...	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, San Antonio and Lavaca Rivers and tributaries.
San Francisco, Calif...	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River tributaries in Kansas.
Tulsa, Okla.....	Arkansas River and tributaries below the Kansas-Oklahoma State line to and including Van Buren, Ark., except the Canadian River and the Verdigris and Neosho Rivers in Kansas.
Vicksburg, Miss.....	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac and Rappahannock Rivers and tributaries.
Wichita, Kans.....	Arkansas River and tributaries above the Kansas-Oklahoma State line to, but not including Great Bend, Kans., the Verdigris and Neosho Rivers and tributaries above the Kansas-Oklahoma State line.



## INTRODUCTION

River Forecast Centers

- Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (McMechen, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky., Sandusky River and tributaries.  
River Districts Served: Cincinnati, Ohio; Columbus, Ohio; Evansville, Ind.; Huntington, W. Va.; Indianapolis, Ind.; Louisville, Ky.; Nashville, Tenn.; and Parkersburg, W. Va.
- Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and tributaries.  
River Districts Served: Allentown, Pa.; Binghamton, N. Y.; Harrisburg, Pa.; Philadelphia, Pa.; Reading, Pa.
- Kansas City, Mo..... Missouri River Forecast Center: Missouri River and tributaries from the headwaters to and including Jefferson City, Mo.; the Marais des Cygnes (Osage) River tributaries in Kansas.  
River Districts Served: Billings, Mont.; Bismarck, N. Dak.; Denver, Colo.; Helena, Mont.; Kansas City, Mo.; Norfolk, Nebr.; Omaha, Nebr.; Sioux City, Iowa; Topeka, Kans.
- Knoxville, Tenn..... Tennessee Valley Forecast Center: Tennessee River and tributaries.  
River Districts Served: Asheville, N. C.; Knoxville, Tenn.
- Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to and including the Klamath River; Great Basin in Oregon.  
River Districts Served: Boise, Idaho; Medford, Oreg.; Portland, Oreg.; Seattle, Wash.; Spokane, Wash.
- St. Louis, Mo..... Upper Mississippi River Forecast Center: Mississippi River and tributaries from headwaters to and including New Madrid, Mo.; the Missouri River and tributaries below Jefferson City, Mo. (except the Marais des Cygnes (Osage) River tributaries in Kansas); the Ohio River and tributaries below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River); the Red River of the North and tributaries to Canadian line.  
River Districts Served: Burlington, Iowa; Cairo, Ill.; Des Moines, Iowa; Fargo, N. Dak.; La Crosse, Wis.; Minneapolis, Minn.; Moline, Ill.; St. Louis, Mo.
- Tulsa, Okla..... Arkansas River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado line, except the Canadian River in New Mexico.  
River Districts Served: Dodge City, Kans.; Little Rock, Ark.; Oklahoma City, Okla.; Tulsa, Okla.; Wichita, Kans.

## RIVER STATIONS AND MISCELLANEOUS INFORMATION

(River stations, arranged by drainage areas, and miscellaneous information pertaining thereto)

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM--Continued										
		Years	Feet	Miles	Sq. Miles	Feet	Feet		Feet	
Ohio Basin--Continued										
Weston, W. Va.	West Fork	52	993.84	69.0	133	17	25.5	June 25, 1950	0.79	Aug. 9, 1952
Confluence, Pa.	Youghiogheny	82	1,302.77	87.0	1,029	12	U 21.9	Mar. 29, 1924	U 0.7	Sept. 8, 1881
Connellsville, Pa.	do	47	860.13	45.0	1,326	16	21.96	Oct. 16, 1954	0.1	Sept. 23, 1908
Sutersville, Pa.	do	37	733.36	13.5	1,715	20	32.5	do	1.4	Sept. 27, 1939
Lock No. 15, Soult, W. Va. (Lower gage)	Monongahela	51	838.91	124.2	J 2,388	28	28.4	Jan. 2, 1919	0.7	Dec. 6, 1908
Lock No. 7, Greensboro, Pa. (Lower gage)	do	67	753.00	84.8	4,407	37	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa. (Lower gage)	do	69	716.17	41.5	5,213	28	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	do	42	718.25	14.6	7,161	12	28.8	Mar. 18, 1936	0.6	Aug. 14, 1944
Beaver Falls, Pa.	Beaver	47	727.48	5.5	3,106	15	17.4	Mar. 27, 1913	1.7	Aug. 20-25, 1951
Newcomertown, Ohio	Tuscarawas	27	780.00	21.1	2,436	.....	V 21.25	Aug. 9, 1935	1.52	Sept. 15, 1954
Zanesville, Ohio	Muskingum	64	665.0	75.2	J 6,844	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1885
McConnellsville, Ohio	do	42	650.31	48.2	7,411	10	33.5	do	-0.65	Aug. 25, 1930
Glenville, W. Va.	Little Kanawha	54	697.79	103.0	J 3,867	23	33.6	Nov. 16, 1926	W	Oct. 4, 1932
Creston, W. Va.	do	54	621.71	48.1	J 1,235	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	39	615.59	31.6	944	17	23.0	Mar. 7, 1945	2.0	Aug. 13, 1941
Camden on Gauley, W. Va.	Gauley	39	2,003.28	71.0	J 236	23	19.42	July 19, 1954	0.84	Oct. 26-27, 1953
Galax, Va.	New	13	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	0.6	July 8, 1930
Radford, Va.	do	59	1,712.36	145.0	2,748	14	35.96	do	1.08	Aug. 25-27, 1944
Glenlyn, Va.	do	29	1,489.76	95.0	J 3,768	15	27.5	do	2.0	Sept. 28, 1926
Hinton, W. Va.	do	68	1,356.44	63.4	6,288	14	20.2	Sept. 13, 1878	0.23	Sept. 25-26, 1953
Clay, W. Va.	Elk	40	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	L-0.06	Oct. 16-Nov. 8, 1953
Kanawha Falls, W. Va.	Kanawha	41	623.20	95.0	J 8,367	25	29.6	Aug. 15, 1940	-0.95	Aug. 15, 1930
London Dam, London, W. Va.	do	21	581.00	82.8	8,552	43	40.9	do	.....	.....
Charleston, W. Va.	do	82	548.00	54.4	10,419	.....	48.9	Mar. 5, 1899	.....	.....
Logan, W. Va.	Guyandot	24	639.98	81.4	859	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923
Kermit, W. Va.	Tug Fork	24	574.77	35.5	1,268	38	39.2	Feb. 3, 1939	1.4	Oct. 4, 1920
Pikeville, Ky.	Levisa Fork	47	633.18	88.5	J 1,237	36	48.5	Mar. 23, 1929	0.1	Oct. 5, 1951
Paintsville, Ky.	do	27	566.84	38.5	2,143	40	42.15	Feb. 4, 1939	1.1	July 23, 1930
Louisa, Ky.	Big Sandy	66	516.46	26.6	3,821	45	48.0	Feb. 5, 1939	0.7	Nov. 18, 1884
Delaware, Ohio	Olentangy	45	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921
La Rue, Ohio	Scioto	39	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.8	June 5, 1941
Prospect, Ohio	do	48	891.72	172.2	554	10	15.0	Mar. 22, 1927	0.2	Oct. 2, 1910
Columbus, Ohio	do	57	700.03	131.9	1,613	22	M 22.9	Mar. 25, 1913	-0.8	July 27, 1923
Circleville, Ohio	do	43	643.03	107.4	3,217	14	28.2	Mar. 26, 1913	1.42	Oct. 4, 1953
Chillicothe, Ohio	do	47	594.02	70.4	3,847	16	39.8	do	0.85	Sept. 27, 1944
Pikeeton, Ohio	do	12	532.52	35.0	5,824	16	28.8	Mar. 7, 1945	0.29	Sept. 13, 1953
Kings Mills, Ohio	Little Miami	42	587.10	31.2	1,048	17	26.77	Apr. 20, 1940	0.5	July 3, 1914
Cynthiana, Ky.	South Fork	38	688.52	46.0	64	20	23.3	Apr. 13, 1948	0.5	June 15, 1936
Farmers, Ky.	Licking	39	646.55	172.0	826	25	31.1	Feb. 9, 1918	1.0	July 13-14, 1945
Falmouth, Ky.	do	68	511.16	51.2	2,267	28	41.6	Apr. 14, 1948	-0.1	Oct. 14-27, 1930
Pleasant Hill, Ohio	Stillwater	39	846.55	29.2	502	13	17.5	Jan. 15, 1937	0.6	July 26, 1941
Springfield, Ind.	Mad	40	881.42	23.6	485	11	15.1	do	1.2	Dec. 4, 1944
Brookville, Ind.	Whitewater	37	595.71	27.0	1,230	20	25.56	Feb. 26, 1929	0.1	Sept. 25-Oct. 2, 1941
Sidney, Ohio	Miami	41	924.65	134.8	545	12	14.4	Mar. 20, 1927	-0.2	Sept. 23, 1940
Piqua, Ohio	do	44	844.00	122.1	850	17	29.1	Mar. 25, 1913	0.7	Sept. 17, 1941
Tipp City, Ohio	do	32	786.77	104.5	955	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941
Dayton, Ohio	do	62	721.01	84.5	2,315	21	31.7	Mar. 25-26, 1913	-0.1	Sept. 28, 1941
Miamisburg, Ohio	do	32	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1929
Franklin, Ohio	do	32	658.41	61.3	2,731	16	16.7	do	0.0	Oct. 3, 1954
Middletown, Ohio	do	32	626.00	53.6	3,162	14	17.5	Feb. 27, 1929	.....	.....
Hamilton, Ohio	do	45	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21-26, 1932
Hazard, Ky.	North Fork	30	839.76	96.0	465	20	35.0	May 30, 1927	.....	.....
Jackson, Ky.	do	27	697.67	46.0	1,105	29	43.1	Feb. 4, 1939	0.0	Sept. 11-14, 1954
Lock No. 14, Heidelberg, Ky.	Kentucky	39	627.20	249.0	2,639	30	35.6	do	2.8	Nov. 22, 1953
Lock No. 10, Ford, Ky.	do	52	556.80	176.4	3,948	25	35.1	Mar. 29, 1913	8.2	Oct. 25-28, 1953
Lock No. 7, Highbridge, Ky.	do	54	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24-26, 1912
Lock No. 4, Frankfort, Ky.	do	66	462.17	65.0	5,396	31	47.46	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	31	409.83	37.6	1,680	28	44.63	Mar. 24, 1952	X 0.0	Oct. 18, 1923
Dundee, Ky.	Rough	15	393.18	62.5	752	25	29.0	Jan. 14, 1950	.....	.....
Munfordville, Ky.	Green	30	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do	48	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do	56	373.80	149.5	5,446	33	59.0	do	5.0	Sept. 17, 1902
Lock No. 2, Runney, Ky.	do	52	343.64	62.8	7,681	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Seymour, Ind.	East Fork	32	550.67	167.6	2,333	14	19.74	Jan. 5, 1949	.....	.....
Williams, Ind.	do	34	472.56	78.2	4,690	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do	47	442.25	56.1	4,954	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Anderson, Ind.	White	44	825.02	285.7	401	10	23.6	Mar. 25, 1913	.....	.....
Noblesville, Ind.	do	41	738.18	262.0	837	14	20.1	May 19, 1943	3.0	Aug. 29, 1914
Indianapolis, Ind.	do	44	672.82	238.4	1,610	12	29.5	Mar. 26, 1913	2.0	Sept. 17-21, 1941
Spencer, Ind.	do	29	526.04	165.9	2,980	14	23.2	Jan. 16, 1937	0.88	Sept. 25-30 & Oct. 1, 1941
Ellettsville, Ind.	do	47	472.94	129.8	4,470	18	31.3	Mar. 27, 1913	5.3	Oct. 22, 1941
Edwardsport, Ind.	do	32	433.20	84.2	5,000	12	26.3	Jan. 8, 1950	1.7	Nov. 5, 1944
Petersburg, Ind.	do	20	400.00	47.8	11,139	16	28.38	Jan. 22, 1937	0.0	Jan. 2, 1945
Bluffton, Ind.	Wabash	44	793.01	423.9	506	10	20.0	Mar. 26, 1913	0.2	Aug. 26, 1936
Wabash, Ind.	do	32	642.66	376.6	1,733	12	24.22	May 18, 1943	1.66	Aug. 4, 5, 9, 1934
Peru, Ind.	do	10	622.73	362.4	2,655	20	30.2	Mar. ... 1913	1.4	Sept. 10, 1944
Logansport, Ind.	do	37	573.28	343.2	3,751	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
Lafayette, Ind.	do	47	504.14	301.4	7,247	11	34.4	May 19, 1943	0.3	Sept. 25, 1941
Covington, Ind.	do	28	473.87	280.5	8,208	16	32.4	May 20, 1943	-0.2	Oct. 5, 1928
Serre Haute, Ind.	do	56	445.78	204.4	12,200	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Riverton, Ind.	do	16	414.65	131.4	13,100	18	29.36	May 21, 1943	0.2	Sept. 27-Oct. 1, 1941
Vincennes, Ind.	do	38	394.43	117.2	13,700	16	29.33	May 22, 1943	1.2	June 22, 1934
Mount Carmel, Ill.	do	71	371.46	83.9	28,600	17	31.0	Mar. 30, 1913	-0.2	Oct. 8-11, 1940
New Harmony, Ind.	do	21	353.20	44.0	29,160	15	34.0	Jan. 30, 1937	-0.2	Sept. 30, 1941
Williamsburg, Ky.	Cumberland	47	891.52	592.7	1,617	21	34.0	Jan. 10, 1946	-0.5	Sept. 16, 1919
Carthage, Tenn.	do	70	437.67	308.4	10,754	40	59.8	Dec. 30, 1926	-0.4	Nov. 16, 1902
Nashville, Tenn.	do	81	368.17	192.7	12,878	40	56.2	Jan. 1, 1927	-0.1	Sept. 14, 1887
Clarksville, Tenn.	do	54	330.95	127.0	14,504	46	65.7	Jan. 25, 1937	-1.0	Sept. 18, 1913
Lock F, Eddyville, Ky.	do	37	2							



# MISSISSIPPI SYSTEM—OHIO BASIN

WABASH RIVER AT LOGANSPOET, IND.  
GAGE ZERO: 573.28 FEET, M.S.L. FLOOD STAGE: 17 FEET.

1954	Day of month																															Highest or crest	Date	Lowest	Date		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
JAN	F 2.8	F 2.8	F 2.8	F 2.9	F 2.8	F 2.8	2.8	G 2.8	2.8	F 2.8	G 2.7	F 2.9	B 2.8	B 2.8	F 2.8	F 2.8	B 2.8	B 2.8	F 2.8	F 3.0	F 3.0	F 3.2	F 3.1	F 3.1	F 3.1	F 3.0	3.5	4.9	4.7	4.3	G 3.8	4.9	28	G	2.7	11	
FEB	3.1	3.4	3.2	3.2	3.1	3.1	G 3.1	3.0	3.0	3.0	3.0	F 2.8	B 2.8	B 2.8	F 2.8	F 2.8	B 2.8	B 2.8	F 2.8	F 3.0	F 3.0	F 3.2	F 3.1	F 3.1	F 3.1	F 3.0	3.5	4.9	4.7	4.3	G 3.8	4.9	28	G	2.7	12+	
MAR	5.9	6.4	5.7	4.7	G 4.2	G 3.8	3.7	3.6	3.5	3.5	3.4	3.4	3.3	3.3	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
APR	5.4	5.0	4.6	4.4	4.0	3.9	3.8	4.4	5.1	4.6	4.6	8.0	7.0	5.6	5.0	4.6	4.4	5.2	5.7	5.0	4.4	4.0	3.8	3.7	3.7	3.6	4.1	3.9	3.8	4.0	3.5	4.5	5	8.0	12	3.6	26
MAY	3.7	3.6	3.7	4.2	4.5	4.1	3.8	3.7	3.6	3.5	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.2	3.2	3.2	3.1	3.0	3.1	3.1	3.1	3.0	3.0	3.0	3.2	4.0	4.0	3.5	4.5	5	3.0	25+	
JUN	4.2	6.4	5.9	6.3	5.4	4.8	4.2	3.9	4.6	4.6	4.6	4.2	3.9	4.1	3.7	3.5	3.4	3.3	3.5	3.4	3.3	3.4	3.2	3.2	3.2	3.1	3.0	3.0	3.0	2.9	2.9	4.0	2.9	2.9	2.9		
JUL	2.9	2.9	2.8	3.1	3.2	3.0	3.2	4.2	4.0	3.7	3.5	3.3	3.2	3.1	3.0	3.0	2.9	2.9	2.9	2.9	3.0	2.9	2.8	2.9	2.8	2.8	2.8	2.7	2.8	2.8	2.8	4.2	8	2.7	28		
AUG	2.9	2.8	3.0	2.9	3.1	4.1	3.6	3.5	3.3	3.2	3.3	3.2	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.1	3.5	4.0	3.6	3.4	3.2	3.1	3.1	3.6	3.6	3.5	3.4	3.3	4.1	6	2.8	2	
SEP	3.2	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	3.2	1	2.6	22+		
OCT	2.9	3.0	2.4	3.0	3.6	5.0	5.2	4.3	3.8	3.6	4.0	6.3	7.9	7.1	7.4	8.3	7.2	6.3	5.5	5.0	4.5	4.2	4.0	3.8	3.7	3.6	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
NOV	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.3	3.5	3.6	3.4	3.8	3.7	3.8	3.7	3.9	4.1	5.1	5.1	3.0	3.1	18+		
DEC	4.8	4.4	4.1	3.9	3.7	G 3.7	G 3.5	G 3.4	3.4	G 3.5	G 3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	G 3.4	G 3.3	G 3.3	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	G 3.4	

WABASH RIVER AT LAFAYETTE, IND.  
GAGE ZERO: 504.14 FEET, M.S.L. FLOOD STAGE: 11 FEET.

1954	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High ft	Date	Low ft	Date
JAN	1.3	1.5	1.4	1.4	1.4	1.6	1.4	1.3	1.2	1.3	1.0	0.5	1.0	1.1	1.1	1.2	1.2	1.1	1.2	1.5	3.0	1.7	1.3	1.8	1.8	1.7	2.5	3.9	4.3	4.1	3.3	4.3	26	0.5	12
FEB	2.7	2.6	2.3	2.2	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.5	1.3	1.5	1.8	2.3	2.4	3.6	3.3	3.0	2.8	2.6	2.6	2.5	2.5	2.3	2.7							
MAR	2.3	5.8	6.0	4.6	3.8	3.1	2.8	2.7	2.6	2.7	2.7	2.4	2.6	2.4	2.4	2.0	2.0	2.0	2.1	2.1	2.1	2.5	2.9	2.6	2.8	3.7	5.2	4.9	4.5	4.2	4.1	6.0	3	2.0	16+
APR	5.4	5.2	6.0	4.3	4.1	3.8	3.8	5.8	4.8	5.2	5.2	8.1	10.5	8.4	6.7	7.0	5.3	4.9	6.0	6.0	5.2	4.6	4.0	3.8	3.7	3.6	3.7	4.2	4.2	4.1	10.5	13	3.6	26	
MAY	3.8	3.9	4.0	4.5	4.6	4.2	3.7	3.7	3.5	3.1	3.1	2.9	2.9	2.8	2.8	2.5	2.5	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.1	2.0	2.2	2.7	4.1	3.6	4.6	5	2.0	27
JUN	3.1	7.4	7.8	7.2	7.0	5.5	4.6	4.1	4.0	5.3	4.4	3.7	3.4	3.4	3.1	3.0	2.7	2.3	3.5	3.0	2.8	2.8	3.0	2.7	2.4	2.3	1.8	2.0	1.8	1.8	7.8	3	1.8	27+	
JUL	1.7	1.7	1.5	1.6	1.9	1.9	2.0	2.5	3.5	3.4	3.2	2.8	2.4	2.3	2.2	1.9	2.0	1.7	1.7	1.8	1.9	2.1	1.6	1.5	1.5	1.7	1.3	1.4	1.5	1.5	1.4	3.5	9	1.3	27
AUG	1.4	1.4	1.5	1.7	1.6	1.9	2.6	2.4	2.3	2.1	1.9	1.8	1.7	1.6	1.6	1.5	1.4	2.8	2.0	2.3	2.4	2.7	2.3	2.2	1.9	1.7	2.5	2.5	2.7	2.5	2.5	2.8	18	1.4	1+
SEP	2.2	1.9	1.7	1.6	1.6	1.5	1.5	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.3	1.1	1.3	1.3	3.0	3.0	3.0	3.0	2.2	1.2	1.6	1.6	1.6	1.4	3.1	21	1.1	18	
OCT	1.4	1.4	1.4	1.8	2.1	2.8	4.7	4.1	3.6	2.4	3.2	4.2	7.9	9.1	8.8	10.6	10.7	9.1	7.8	6.7	5.8	5.1	4.7	4.3	4.0	3.9	3.6	3.5	4.3	3.6	3.2	10.7	17	1.4	1+
NOV	3.2	2.1	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
DEC	4.4	3.6	3.6	3.4	3.2	3.1	2.9	2.7	2.3	2.1	1.9	1.9	1.8	2.3	2.3	2.4	2.5	2.4	2.3	2.5	2.5	2.4	2.1	2.6	2.6	2.5	2.6	3.2	6.4	9.7	11.4	11.4	31	1.8	13

WABASH RIVER AT COVINGTON, IND.  
GAGE ZERO: 473.97 FEET, M.S.L. FLOOD STAGE: 16 FEET.

1954	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High or crest	Date	Low or tide	Date	
JAN	3.2	3.1	3.1	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	C 2.8	C 2.9	C 3.2	3.2	3.2	3.2	3.2	3.3	3.4	3.7	3.6	C 3.4	C 3.7	C 3.9	3.9	4.0	5.3	5.6	6.4	6.3	6.4	30	C	2.8	12
FEB	5.1	4.6	4.3	4.1	4.0	3.9	3.7	3.6	3.6	3.5	3.4	3.4	3.3	3.2	3.2	3.4	3.6	4.2	4.2	5.2	5.2	4.8	4.5	4.3	4.3	4.3	4.3	4.1								
MAR	4.0	4.1	4.6	8.0	6.0	6.7	5.3	5.0	4.8	4.7	4.6	4.6	4.5	4.3	4.2	4.2	4.0	4.0	4.0	4.0	4.1	4.1	4.3	4.9	4.7	4.8	6.0	7.5	7.2	6.8	6.5	8.0	4	4.0	1+	
APR	6.8	7.8	7.6	7.0	6.7	6.4	6.0	6.0	7.5	7.7	8.7	9.7	12.8	13.0	11.0	9.6	9.0	8.2	8.1	9.1	8.7	7.7	7.0	6.5	6.0	5.9	6.0	6.4	6.7	6.7	13.0	14	5.9	26		
MAY	6.4	6.5	6.9	7.0	6.4	6.5	7.0	7.1	6.9	6.5	6.0	5.4	5.4	5.3	5.0	4.7	4.6	4.4	4.4	4.3	4.3	4.2	4.1	4.0	3.9	3.8	3.8	4.4	6.1	6.1	6.3	7.1	8	3.8	27+	
JUN	5.8	7.2	11.0	10.5	10.4	9.3	7.9	7.1	6.5	7.7	7.7	7.4	6.8	6.0	5.8	5.4	5.2	5.0	4.8	4.6	4.4	4.2	3.9	3.8	3.8	3.7	3.7	3.7	3.6	3.5	11.0	3	3.5	30		
JUL	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.7	4.7	5.6	5.3	4.9	4.7	4.4	4.0	3.8	3.7	3.6	3.5	3.5	3.4	3.4	3.6	3.6	3.4	3.3	3.2	3.1	3.1	3.2	3.1	5.6	10	3.1	28+	
AUG	3.1	3.1	3.2	3.3	3.4	3.4	3.4	3.5	4.1	4.0	4.1	3.7	3.7	3.5	3.4	3.4	3.4	3.4	4.3	4.8	5.0	4.6	4.4	4.3	4.1	3.9	3.8	3.8	4.1	4.4	4.5	4.3	5.0	21	3.1	1+
SEP	3.8	3.6	3.5	3.4	3.3	3.3	3.2	3.2	3.1	3.0	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.7	4.8	4.6	4.5	3.9	3.6	3.3	3.2	3.1	4.8	23	3.0	10+	
OCT	3.1	3.1	3.2	3.2	3.4	3.8	5.1	6.0	6.4	5.7	5.1	5.5	8.7	11.4	11.1	12.2	13.5	12.7	11.6	9.9	8.4	8.1	7.6	7.0	6.0	6.1	6.0	5.7	5.0	6.2	13.5	17	3.1	1+	3.1	1+
NOV	5.3	4.4	3.9	3.7	3.5	3.5	3.6	3.5	3.6	3.7	5.1	4.7	4.3	4.2	4.3	4.5	4.1	3.7	5.3	3.9	3.8	4.1	4.5	4.4	4.6	4.4	4.4	4.6	4.7	5.1	5.3	5.3	5.1	3.5	5	
DEC	5.6	6.2	5.8	5.4	5.3	4.9	4.8	4.7	4.5	4.2	4.0	3.8	3.7	3.7	3.9	4.1	4.2	4.2	4.2	4.2	4.3	4.3	4.2	3.9	4.4	4.4	4.4	4.6	4.5	5.7	10.6	13.2	13.2	3.1	3.7	13+

# INDEX BY STATIONS

173

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
Albany, N. Y.	Black	Page 6	Page 59	St. Charles, Mo.	Missouri	Page 7	Page 81
Braunfels, Tex.	Neuse	6	38	St. Francis, Ark.	St. Francis	10	138
Commerce, Ohio	Ohio	9	—	Stony Creek	Stony Creek	11	—
Harmony, Ind.	Tuscarawas	8	86	Missouri	Missouri	7	79
Madison, Mo.	Wabash	8	102	Mississippi	Mississippi	7	70
Orleans, La.	Mississippi	10	143	Clark Fork	Clark Fork	7	85
Port, Ark.	White	9	124	Omaha	Omaha	7	77
Port, Pa.	Juniata	5	32	Willamette	Willamette	11	166
Richmond, Ohio	Ohio	9	114	Arkansas	Arkansas	9	—
Ton, Ala.	Choctawhatchee	6	49	Snake Hill	Snake Hill	7	73
Ala., Calif.	Feather	11	158	Salmon	Salmon	11	161
Albany, Ind.	White—West Fork	8	98	Pecos	Pecos	10	151
Cross, Ga.	Chattahoochee	6	47	Coldwater	Coldwater	10	139
Folk, Me.	Elkhorn	7	72	Tennessee	Tennessee	9	108
Ria Dam, Tenn.	Clinch	8	106	Republican	Republican	7	—
th Platte, Nebr.	North Platte	7	71	Mohawk	Mohawk	5	26
Do	South Platte	7	71	Genesee	Genesee	5	—
th Stratford, N. H.	Connecticut	5	25	Alabama	Alabama	6	53
Shannon City, Okla.	North Canadian	9	128	White—East Fork	White—East Fork	8	97
U. S. Y.	Allagheny	7	82	Chenango	Chenango	5	29
U. S. Y.	Missouri	7	79	White—East Fork	White—East Fork	8	98
U. S. Y.	Missouri	10	145	Chickasaw	Chickasaw	10	137
U. S. Y.	Edisto—North Fork	6	—	Chickasaw	Chickasaw	6	83
U. S. Y.	Willamette	11	166	Miami	Miami	8	93
U. S. Y.	Omaha	7	76	Atchafalaya	Atchafalaya	10	144
U. S. Y.	Neosho	9	127	Missouri	Missouri	7	79
U. S. Y.	Marais des Cygnes	7	—	Neuse	Neuse	6	38
U. S. Y.	do.	7	76	Colorado	Colorado	10	149
U. S. Y.	Des Moines	7	62	Snake	Snake	11	170
U. S. Y.	Ohio	9	118	Connecticut	Connecticut	5	—
U. S. Y.	Arkansas	9	121	Clearwater	Clearwater	11	162
U. S. Y.	Ohio	9	109	West Fork	West Fork	8	90
U. S. Y.	Tennessee	9	120	Spokane	Spokane	11	160
U. S. Y.	San Juan	11	155	Red	Red	10	—
U. S. Y.	Levisa Fork	8	—	Connecticut	Connecticut	5	26
U. S. Y.	Ohio	9	111	Mad	Mad	8	93
U. S. Y.	Allagheny	7	83	Potomac—South Branch	Potomac—South Branch	5	—
U. S. Y.	St. Francis	10	138	Meramec	Meramec	7	64
U. S. Y.	Arkansas	9	—	Youngbush	Youngbush	8	84
U. S. Y.	Pearl	8	58	Tallahatchie	Tallahatchie	10	139
U. S. Y.	Pee Dee	8	41	Tar	Tar	5	38
U. S. Y.	Saluda	6	41	Ohio	Ohio	9	118
U. S. Y.	Contoocook	5	24	Wabash	Wabash	8	101
U. S. Y.	Tombigbee	6	55	Columbia	Columbia	11	168
U. S. Y.	Illinois	7	63	Nueces	Nueces	10	151
U. S. Y.	Cimarron	9	126	Sandusky	Sandusky	5	22
U. S. Y.	Tennessee	9	108	Miami	Miami	8	—
U. S. Y.	Wabash	8	100	Topoka	Topoka	8	74
U. S. Y.	White	5	28	Towanda	Towanda	5	33
U. S. Y.	Schuylkill	7	83	Tracy, Iowa	Tracy, Iowa	7	82
U. S. Y.	Tygart	7	78	Trenton, Mo.	Trenton, Mo.	7	75
U. S. Y.	Missouri	8	91	Trenton, N. J.	Trenton, N. J.	5	28
U. S. Y.	Scioto	8	90	Tribe Hill, N. Y.	Tribe Hill, N. Y.	5	26
U. S. Y.	Levisa Fork	10	132	Trinidad, Tex.	Trinidad, Tex.	10	147
U. S. Y.	Arkansas	8	94	Trinidad, Wash.	Trinidad, Wash.	11	167
U. S. Y.	Miami	8	108	Tulsa	Tulsa	8	130
U. S. Y.	Ohio	9	93	Tuscaloosa Lock and Dam, Ala.	Tuscaloosa Lock and Dam, Ala.	8	54
U. S. Y.	Stillwater	5	24	Umatilla, Oreg.	Umatilla, Oreg.	11	168
U. S. Y.	Pemigewasset	9	112	Unadilla, N. Y.	Unadilla, N. Y.	5	32
U. S. Y.	Ohio	9	122	Union, Mo.	Union, Mo.	7	84
U. S. Y.	Black	6	60	Uniontown, Ky.	Uniontown, Ky.	9	119
U. S. Y.	Wisconsin	5	28	Upper Sandusky, Ohio	Upper Sandusky, Ohio	5	22
U. S. Y.	Delaware	5	—	Valley Junction, Tex.	Valley Junction, Tex.	10	148
U. S. Y.	Grand	11	166	Valley Park, Mo.	Valley Park, Mo.	7	85
U. S. Y.	Willamette	8	113	Van Buren, Ark.	Van Buren, Ark.	9	131
U. S. Y.	Ohio	9	—	Vanderburg, Ky.	Vanderburg, Ky.	10	—
U. S. Y.	Pee Dee	7	67	Vancouver	Vancouver	11	168
U. S. Y.	Mississippi	11	160	Vandergrift, Pa.	Vandergrift, Pa.	7	82
U. S. Y.	Pend Oreille	8	91	Van Meter, Iowa	Van Meter, Iowa	6	61
U. S. Y.	Scioto	8	106	Vestal, N. Y.	Vestal, N. Y.	5	33
U. S. Y.	Elk	7	—	Vicksburg, Miss.	Vicksburg, Miss.	10	141
U. S. Y.	Arkansas	9	—	Victoria, Tex.	Victoria, Tex.	10	151
U. S. Y.	Marais des Cygnes	7	69	Vincennes, Ind.	Vincennes, Ind.	8	102
U. S. Y.	Mississippi	10	58	Wabash, Ind.	Wabash, Ind.	8	100
U. S. Y.	Mississippi	7	88	Waco, Tex.	Waco, Tex.	10	148
U. S. Y.	Neosho	9	130	Wabington, N. Y.	Wabington, N. Y.	5	19
U. S. Y.	Arkansas	11	167	Wakefield, Kans.	Wakefield, Kans.	7	74
U. S. Y.	Cowlitz	5	36	Wamego, Kans.	Wamego, Kans.	6	67
U. S. Y.	Ronoke	5	—	Wapello, Iowa	Wapello, Iowa	7	82
U. S. Y.	Rapidan	5	111	Warren, Pa.	Warren, Pa.	7	76
U. S. Y.	Ohio	5	27	Warsaw, Mo.	Warsaw, Mo.	7	—
U. S. Y.	Schuylkill	11	168	Washington, N. Dak.	Washington, N. Dak.	5	25
U. S. Y.	Mississippi	7	68	Washington, D. C.	Washington (near), D. C.	10	148
U. S. Y.	Sacramento	10	142	Washington, Tex.	Washington, Tex.	9	—
U. S. Y.	do.	5	31	Washington, W. Va.	Washington, W. Va.	6	60
U. S. Y.	Susquehanna—West Branch	6	50	Waterloo, Iowa	Waterloo, Iowa	11	164
U. S. Y.	Oostanaula	10	142	Waverly, Mo.	Waverly, Mo.	7	80
U. S. Y.	Mississippi	11	181	Waynesboro, Miss.	Waynesboro, Miss.	9	131
U. S. Y.	Henry Fork	10	148	Webbers Falls, Okla.	Webbers Falls, Okla.	11	163
U. S. Y.	Brazos	5	38	Weldon, N. C.	Weldon, N. C.	5	37
U. S. Y.	Jones	11	153	West Cameron, N. Y.	West Cameron, N. Y.	11	163
U. S. Y.	Santee	8	147	Westfir, Oreg.	Westfir, Oreg.	5	25
U. S. Y.	San Joaquin	10	102	West Hartford, Vt.	West Hartford, Vt.	8	84
U. S. Y.	Wabash	5	34	Weston, W. Va.	Weston, W. Va.	6	47
U. S. Y.	Shenandoah	5	23	West Point, Ga.	West Point, Ga.	7	72
U. S. Y.	Genesee	8	43	West Point, Nebr.	West Point, Nebr.	9	129
U. S. Y.	Catawba	6	28	Wetumpka, Okla.	Wetumpka, Okla.	10	150
U. S. Y.	Unadilla	5	148	Wharton, Tex.	Wharton, Tex.	11	160
U. S. Y.	Neches	10	146	Wheeling, W. Va.	Wheeling, W. Va.	11	161
U. S. Y.	Trinity—East Fork	5	37	White Bird, Idaho	White Bird, Idaho	10	135
U. S. Y.	Ter	6	50	Whitecliffs, Ark.	Whitecliffs, Ark.	9	129
U. S. Y.	Oostanaula	10	—	Whitefield, Okla.	Whitefield, Okla.	5	25
U. S. Y.	Trinity	8	97	White River Junction, Vt.	White River Junction, Vt.	6	55
U. S. Y.	Green	11	159	Whitfield, Ala.	Whitfield, Ala.	11	165
U. S. Y.	Sacramento	5	21	Whitson, Oreg.	Whitson, Oreg.	5	29
U. S. Y.	Saginaw	9	125	Whitney Point, N. Y.	Whitney Point, N. Y.	9	130
U. S. Y.	White	5	—	Wichita, Kans.	Wichita, Kans.	5	33
U. S. Y.	White	5	—	Wilkes-Barre, Pa.	Wilkes-Barre, Pa.	5	33



U. S. DEPARTMENT OF COMMERCE  
Sinclair Weeks, Secretary

WEATHER BUREAU  
F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

VOLUME LI  
1955

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# DAILY RIVER STAGES-1955

1

## INTRODUCTION

This volume, containing the daily river stages for 1955 is the fifty-first of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS

#### OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

#### DAILY RIVER STAGES

Volume XLV. 1949	Volume XLVII. 1951	Volume XLIX. 1953
XLVI. 1950	XLVIII. 1952	L. 1954

Volumes XXXVII to LI can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of the Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.



## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River and the Pecos River in Texas.
Burlington, Iowa.....	Mississippi River from below Muscatine, Iowa, to, but not including, Dam No. 24 and tributaries, except: the Iowa River above Wapello, Iowa, the Skunk River above Augusta, Iowa, and the Des Moines River above Keosauqua, Iowa.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa River and tributaries above Wapello, Iowa; Skunk River and tributaries above Augusta, Iowa; Des Moines River and tributaries above Keosauqua, Iowa.
Dodge City, Kans.....	Arkansas River and tributaries from the Colorado-Kansas State line, downstream to and including Great Bend, Kans.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to but not including the mouth of the Pecos River.
Eureka, Calif.....	California Coast drainage from Point Delgada northward except the Klamath River and tributaries above the California-Oregon State line.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fort Worth, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo...	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Tauton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River and tributaries at and below Long Lake Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River),

## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

La Crosse, Wis.....	and Lake Michigan drainage from and including Menominee River southward to (Cont'd.) Wisconsin-Illinois State line.
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon Coast drainage southward from and including Umpqua River; the Klamath River and tributaries above the California-Oregon State line; the Great Basin in Oregon except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Neb.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.).
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River, Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Rochester, N. Y.....	Genesee River and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River tributaries in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah...	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, San Antonio and Lavaca Rivers and tributaries.
San Francisco, Calif...	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.
Tulsa, Okla.....	Arkansas River and tributaries below the Kansas-Oklahoma State line to and including Van Buren, Ark., except the Canadian River and the Verdigris and Neosho Rivers in Kansas.
Vicksburg, Miss.....	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac and Rappahannock Rivers and tributaries.
Wichita, Kans.....	Arkansas River and tributaries above the Kansas-Oklahoma State line to, but not including Great Bend, Kans., the Verdigris and Neosho Rivers and tributaries above the Kansas-Oklahoma State line.



## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River Forecast Centers

- Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (McMechen, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky., Sandusky River and tributaries.  
River Districts Served: Cincinnati, Ohio; Columbus, Ohio; Evansville, Ind.; Huntington, W. Va.; Indianapolis, Ind.; Louisville, Ky.; Nashville, Tenn.; and Parkersburg, W. Va.
- Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and tributaries.  
River Districts Served: Allentown, Pa.; Binghamton, N. Y.; Harrisburg, Pa.; Philadelphia, Pa.; Reading, Pa.
- Kansas City, Mo..... Missouri River Forecast Center: Missouri River and tributaries from the headwaters to and including Jefferson City, Mo.; the Marais des Cygnes (Osage) River and tributaries in Kansas.  
River Districts Served: Billings, Mont.; Bismarck, N. Dak.; Denver, Colo.; Helena, Mont.; Kansas City, Mo.; Norfolk, Nebr.; Omaha, Nebr.; Sioux City, Iowa; Topeka, Kans.
- Knoxville, Tenn..... Tennessee Valley Forecast Center: Tennessee River and tributaries.  
River Districts Served: Asheville, N. C.; Knoxville, Tenn.
- Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to and including the Klamath River; Great Basin in Oregon.  
River Districts Served: Boise, Idaho; Medford, Oreg.; Portland, Oreg.; Seattle, Wash.; Spokane, Wash.
- St. Louis, Mo..... Upper Mississippi River Forecast Center: Mississippi River and tributaries from headwaters to and including New Madrid, Mo.; the Missouri River and tributaries below Jefferson City, Mo. (except the Marais des Cygnes (Osage) River tributaries in Kansas); the Ohio River and tributaries below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River); the Red River of the North and tributaries to Canadian line.  
River Districts Served: Burlington, Iowa; Cairo, Ill.; Des Moines, Iowa; Fargo, N. Dak.; La Crosse, Wis.; Minneapolis, Minn.; Moline, Ill.; St. Louis, Mo.
- Tulsa, Okla..... Arkansas River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado line, except the Canadian River in New Mexico.  
River Districts Served: Dodge City, Kans.; Little Rock, Ark.; Oklahoma City, Okla.; Tulsa, Okla.; Wichita, Kans.

## RIVER STATIONS AND MISCELLANEOUS INFORMATION

[River stations, arranged by drainage areas, and miscellaneous information pertaining thereto]

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM--Continued										
Ohio Basin--Continued										
		Years	Feet	Miles	Sq. Miles	Feet	Feet		Feet	
Parker, Pa.	..do.	71	845.14	85.0	7,671	20	27.85	Mar. 5, 1934	0.1	Sept. 8, 1886
Lock No. 3, Acmetonia, Pa. (Lower gage)	..do.	21	710.21	14.7	11,517	25	45.2	Mar. 18, 1936	11.1	July 17, 1936
Elkins, W. Va.	Tygart	7	1,901.65	88.0	266	17	18.8	Oct. 16, 1954	3.74	Oct. 20, 1953
Philippi, W. Va.	..do.	37	1,280.55	46.0	916	17	24.1	Oct. 16, 1954	1.08	Oct. 10-12, 1953
Weston, W. Va.	West Fork	53	993.84	69.0	133	17	25.5	June 25, 1950	0.79	Aug. 9, 1952
Confluence, Pa.	Youghiogheny	83	1,302.77	67.0	1,029	12	21.9	Mar. 29, 1924	0.31	Oct. 14, 1943
Connellsville, Pa.	..do.	48	860.13	45.0	1,326	16	21.96	Oct. 16, 1954	0.1	Sept. 23, 1908
Sutersville, Pa.	..do.	38	733.36	13.5	1,715	20	32.5	Oct. 16, 1954	1.4	Sept. 27, 1935
Lock No. 15, Moulton, W. Va. (Lower gage)	Monongahela	52	838.81	124.2	2,388	28	29.4	Jan. 2, 1919	0.7	Dec. 6, 1908
Lock No. 7, Greensboro, Pa. (Lower gage)	..do.	68	753.00	84.8	4,407	37	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa. (Lower gage)	..do.	70	716.17	41.5	5,213	28	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	..do.	43	718.25	14.6	7,161	12	28.8	Mar. 18, 1936	0.6	Aug. 14, 1944
Beaver Falls, Pa.	Beaver	48	727.48	5.3	3,106	15	17.4	Mar. 27, 1913	1.7	Aug. 20-25, 1951
Newcomerstown, Ohio	Tuscarawas	28	780.00	21.1	2,436	15	21.25	Aug. 9, 1935	1.52	Sept. 15, 1954
Zanesville, Ohio	Muskingum	65	665.0	76.8	6,844	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
McConnellsville, Ohio	..do.	43	650.31	49.6	7,411	10	33.5	Mar. 27, 1913	-0.65	Aug. 25, 1930
Glenville, W. Va.	Little Kanawha	55	697.79	103.0	386	23	33.6	Nov. 16, 1926	2	Oct. 4, 1932
Creston, W. Va.	..do.	55	621.71	48.1	1,235	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	40	615.59	31.6	944	17	23.0	Mar. 7, 1945	2.0	Aug. 13, 1941
Camden on Gauley, W. Va.	Gauley	40	2,003.28	71.0	236	23	19.42	July 19, 1954	0.84	Oct. 26-27, 1953
Galax, Va.	New	14	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	0.6	July 8, 1930
Radford, Va.	..do.	60	1,712.36	145.0	2,748	14	35.96	Aug. 14, 1940	1.08	Aug. 25-27, 1944
Glenlyn, Va.	..do.	30	1,489.76	95.0	3,768	15	27.5	Aug. 14, 1940	1.36	Sept. 29, 1955
Hinton, W. Va.	..do.	69	1,356.44	63.4	6,288	14	20.2	Sept. 13, 1878	0.23	Sept. 25-26, 1953
Clay, W. Va.	Elk	41	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	-0.08	Oct. 16-Nov. 8, 1953
Kanawha Falls, W. Va.	Kanawha	42	623.20	95.0	8,367	25	29.6	Aug. 15, 1940	-0.95	Aug. 15, 1930
London Dam, London, W. Va.	..do.	22	581.00	82.8	8,552	43	40.9	Aug. 15, 1940	---	---
Charleston, W. Va.	..do.	83	548.00	54.4	10,419	---	48.9	Mar. 5, 1899	---	---
Logan, W. Va.	Guyandot	34	639.08	81.4	859	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923
Kernit, W. Va.	Tug Fork	48	574.77	35.5	1,268	38	43.5	Feb. 28, 1955	1.4	Oct. 4, 1920
Paintsville, Ky.	Levisa Fork	25	633.18	88.5	1,237	36	48.5	Mar. 23, 1929	0.1	Oct. 5, 1951
Louisville, Ky.	..do.	40	566.84	38.5	2,143	40	42.15	Feb. 4, 1939	1.40	July 23, 1930
Louisia, Ky.	Big Sandy	47	516.46	26.6	3,821	45	48.0	Feb. 5, 1939	0.7	Nov. 18, 1884
Delaware, Ohio	Glentany	66	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921
La Rue, Ohio	Scioto	40	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.8	June 5, 1941
Prospect, Ohio	..do.	49	891.72	172.2	554	10	15.0	Mar. 22, 1927	0.2	Oct. 2, 1910
Columbus, Ohio	..do.	58	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-0.8	July 27, 1923
Circleville, Ohio	..do.	44	643.03	100.4	3,117	14	28.2	Mar. 26, 1913	1.42	Oct. 4, 1953
Chillicothe, Ohio	..do.	48	594.02	70.4	3,847	16	39.8	Mar. 26, 1913	0.85	Sept. 27, 1944
Pikeston, Ohio	..do.	13	531.39	35.0	5,824	16	28.8	Mar. 7, 1945	0.60	Nov. 16-15, 1955
Kings Mills, Ohio	Little Miami	43	587.10	31.2	1,048	17	26.77	Apr. 20, 1940	0.5	July 3, 1914
Cynthiana, Ky.	South Fork	39	688.52	46.0	615	20	23.3	Apr. 13, 1948	0.5	June 15, 1936
Farmers, Ky.	Licking	40	646.55	172.0	826	25	31.1	Feb. 9, 1918	1.0	July 13-14, 1945
Falmouth, Ky.	..do.	69	511.16	51.2	2,320	28	41.6	Apr. 14, 1948	-0.1	Oct. 14-27, 1930
Pleasant Hill, Ohio	Stillwater	40	846.55	29.2	502	13	17.5	Jan. 14, 1937	0.6	July 26, 1941
Springfield, Ohio	Mad	41	881.42	23.6	485	11	15.1	Feb. 26, 1929	1.2	Dec. 4, 1944
Brookville, Ind.	Whitewater	38	595.71	27.0	1,239	20	25.56	Feb. 26, 1929	0.1	Sept. 25-Oct. 2, 1941
Sidney, Ohio	Miami	42	924.85	134.8	545	12	14.4	Mar. 20, 1927	-0.2	Sept. 23, 1940
Piqua, Ohio	..do.	45	844.00	122.1	842	17	29.1	Mar. 25, 1913	0.7	Sept. 17, 1941
Tipp City, Ohio	..do.	33	786.77	104.5	1,016	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941
Dayton, Ohio	..do.	63	721.01	83.0	2,513	21	31.7	Mar. 25-26, 1913	-0.1	Sept. 28, 1941
Mississburg, Ohio	..do.	33	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1929
Franklin, Ohio	..do.	33	658.11	61.3	2,780	16	16.7	Jan. 22, 1937	0.0	Oct. 3, 1954
Middletown, Ohio	..do.	33	626.00	53.6	3,162	14	17.5	Feb. 27, 1929	---	---
Hamilton, Ohio	..do.	46	560.00	35.3	3,639	17	43.1	Mar. 26, 1913	-1.7	Oct. 21-26, 1932
Hazard, Ky.	North Fork	31	839.78	96.0	466	20	35.0	May 30, 1927	---	---
Jackson, Ky.	..do.	28	697.67	46.0	1,103	29	43.1	Feb. 4, 1939	0.0	Sept. 11-19, 1954
Lock No. 14, Heidelberg, Ky.	Kentucky	40	627.20	249.0	2,657	30	35.6	Feb. 4, 1939	2.9	Nov. 22, 1953
Lock No. 10, Ford, Ky.	..do.	53	556.80	176.4	3,956	25	35.1	Mar. 29, 1913	8.2	Oct. 25-28, 1953
Lock No. 7, Highbridge, Ky.	..do.	55	503.66	117.0	5,038	30	42.2	Jan. 23, 1937	4.7	Nov. 24-26, 1912
Lock No. 4, Frankfort, Ky.	..do.	67	462.17	65.0	5,412	31	47.46	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	32	409.83	37.6	1,880	28	44.63	Mar. 24, 1952	a 0.0	Oct. 18, 1923
Dundee, Ky.	Rough	16	393.18	62.5	752	25	29.0	Jan. 14, 1950	---	---
Munfordville, Ky.	Green	31	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	..do.	49	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	..do.	57	373.80	149.5	5,446	33	59.0	Jan. 24, 1937	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	..do.	57	343.64	62.8	7,681	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Danville, Ill.	Vermillion	13	503.33	19.7	1,280	16	28.9	Jan. 13, 1939	---	---
Crawfordsville, Ind.	Sugar Creek	16	657.76	39.2	509	8	14.02	May 18, 1943	0.94	Sept. 24-27, 1941
Ste. Marie, Ill.	Embarrass	46	446.75	47.2	1,540	18	24.95	Jan. 4, 1950	0.95	Aug. 25, 1947
Bowling Green, Ind.	Eel	25	548.02	38.8	844	17	23.53	Jan. 4, 1950	0.34	Oct. 4-5, 1954
Columbus, Ind.	East Fork	8	603.12	192.0	1,692	10	15.12	Jan. 28, 1952	0.78	Oct. 7, 1954
Seymour, Ind.	..do.	33	550.67	167.6	2,333	14	19.74	Jan. 5, 1949	c 0.0	Sept. 14-Oct. 14, 1954
Radford, Ind.	..do.	17	469.20	93.0	4,060	20	32.7	Jan. 8, 1950	---	---
Williams, Ind.	..do.	35	472.56	79.2	4,690	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	..do.	48	442.25	56.1	4,954	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Muncie, Ind.	White	32	920.10	304.8	242	--	18.07	Jan. 15, 1927	0.47	Sept. 15-Oct. 3, 1954
Anderson, Ind.	..do.	45	825.02	285.7	401	10	23.6	Mar. 25, 1913	---	---
Noblesville, Ind.	..do.	42	738.18	262.0	837	14	20.1	May 19, 1943	3.0	Aug. 29, 1914
Indianapolis, Ind.	..do.	45	672.92	238.4	1,610	12	29.5	Mar. 26, 1913	2.0	Sept. 17-21, 1941
Spencer, Ind.	..do.	30	526.04	165.9	2,980	14	23.2	Jan. 16, 1937	0.88	Sept. 25, 30, & Oct. 1, 1941
Elliston, Ind.	..do.	48	472.84	129.8	4,470	18	31.3	Mar. 27, 1913	5.18	Oct. 8, 1954
Edwardsport, Ind.	..do.	33	433.20	84.2	5,000	12	26.3	Jan. 8, 1950	1.7	Jan. 2, 1945
Petersburg, Ind.	..do.	21	400.00	47.8	11,139	16	28.38	Jan. 22, 1937	0.0	Aug. 26, 1936
Hazleton, Ind.	..do.	31	383.23	18.9	11,319	16	31.6	Jan. 22, 1937	0.5	Sept. 10, 1941
Bluffton, Ind.	Wabash	45	793.01	423.9	506	10	20.0	Mar. 26, 1913	0.2	July 26, 1934
Huntington, Ind.	..do.	5	700.00	409.0	710	20	24.22	May 18, 1943	1.66	Aug. 4, 5, 9, 1934
Wabash, Ind.	..do.	33	642.66	376.6	1,733	12	30			



# MISSISSIPPI SYSTEM—OHIO BASIN

WABASH RIVER AT TERRE HAUTE, IND.  
GAGE ZERO, 445.78 FEET, M.S.L. FLOOD STAGE, 14 FEET.

1955	Day of month																															Highest or crest	Date	Lowest	Date		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
JAN	8.1	9.5	8.9	7.7	7.8	10.0	13.1	14.0	14.0	14.0	14.0	14.2	12.0	F 8.8	F 7.7	F 6.0	F 5.9	F 4.9	G 4.5	G 4.1	F 3.9	F 3.6	F 3.3	F 3.0	F 3.0	F 2.8	F 2.2	G 2.0	G 1.7	G 1.3	G 1.3	14.2	12	G	1.3	30+	
FEB	F 2.0	F 2.0	G 2.3	G 2.3	2.3	2.3	2.3	2.4	2.5	2.6	G 3.2	D 2.5	D 2.5	D 2.3	G 2.6	F 3.4	G 3.8	G 3.9	3.7	3.9	G 4.9	6.5	7.0	6.7	6.5	6.0	5.6	6.7	6.0	6.9	6.5	6.5	14.7	9	F	2.0	1+
MAR	7.5	11.5	12.5	13.0	13.8	14.0	14.0	14.7	14.2	11.0	9.5	9.2	10.2	10.0	8.8	8.8	7.5	6.7	6.0	6.0	5.9	6.0	6.1	8.1	10.6	11.3	10.2	8.0	6.9	6.5	6.5	10.4	27	4	5.9	21	
APR	7.0	7.6	7.4	6.8	5.9	5.2	4.8	4.5	4.1	3.8	3.8	3.8	4.2	7.1	7.4	7.2	6.8	6.5	5.9	5.3	4.9	6.0	7.2	7.3	6.9	8.6	10.4	10.2	8.5	6.9	6.9	1	2.8	10+			
MAY	6.9	5.9	5.1	4.6	4.3	4.0	3.8	3.4	3.3	3.2	3.1	3.1	3.1	4.9	5.5	5.5	4.8	4.0	3.5	3.2	3.0	2.8	2.8	3.1	4.0	4.2	4.2	3.8	3.5	6.1	6.5	6.9	1	2.8	22+		
JUN	4.9	4.0	3.5	3.1	3.0	2.9	3.3	4.1	6.9	7.1	6.9	9.1	10.2	9.5	8.3	7.9	7.8	6.8	5.6	4.8	3.9	3.6	3.6	3.3	3.0	2.9	2.8	2.5	2.3	2.2	2.0	10.2	13	2	3.0	30	
JUL	2.2	2.0	1.9	1.8	1.6	1.6	1.6	1.9	1.9	2.1	2.3	2.5	2.4	2.5	2.8	3.3	5.2	8.5	9.6	8.9	6.8	5.2	4.1	3.8	4.3	4.1	3.3	3.0	3.0	2.4	2.2	9.6	19	1.6	5+		
AUG	2.1	2.1	2.0	2.0	1.9	2.1	2.1	1.9	1.6	1.5	2.1	2.1	2.1	1.8	1.5	1.3	1.1	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.2	1.1	1.0	0.9	2.1	6+	0.9	22+		
SEP	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	2.7	30	0.2	21+			
OCT	1.8	1.2	1.0	0.9	0.9	0.9	1.4	2.8	8.1	10.0	10.4	9.1	7.2	5.7	4.4	3.7	3.2	2.8	2.5	2.4	2.1	2.0	2.0	2.0	2.2	2.0	2.0	1.8	1.7	1.7	1.7	1.6	10.4	10	0.9	4+	
NOV	1.5	1.6	2.7	6.0	8.2	10.2	10.2	9.4	7.3	5.6	4.6	4.0	3.5	3.4	4.1	4.8	10.3	10.9	11.2	11.5	11.2	9.8	8.1	7.4	7.1	7.1	6.1	6.0	5.4	G 4.7	11.5	20	1.5	1			
DEC	G 4.0	G 3.8	3.9	4.0	4.5	4.7	5.1	5.0	4.7	4.0	3.6	3.1	G 2.7	G 2.5	G 2.5	D 2.3	D 2.0	D 2.2	D 2.0	F 2.0	F 2.0	G 1.8	G 2.0	2.2	2.4	2.4	2.2	2.2	2.2	2.2	2.0	5.1	7	G	1.8	22	

WABASH RIVER AT RIVERTON, IND.  
GAGE ZERO, 414.65 FEET, M.S.L. FLOOD STAGE, 18 FEET.

1955	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Highest	Date	Low	Date	
JAN	8.5	9.4	10.3	9.6	9.7	10.7	12.5	13.7	14.3	14.5	14.7	14.9	15.0	13.6	10.5	8.4	7.4	6.7	6.2	5.7	5.3	5.9	4.6	4.2	4.0	3.9	G 3.6	G 3.1	G 2.7	G 2.5	F 2.4	15.0	13	F	2.4	31
FEB	2.6	2.6	2.9	3.1	3.2	3.7	3.2	3.2	3.2	3.3	3.7	G 3.4	G 2.7	2.9	2.8	3.2	4.3	4.8	4.7	5.3	6.5	7.8	8.0	7.8	7.6	8.1	8.1					8.1	26+	2.6	1	
MAR	8.6	10.7	12.8	13.7	14.4	14.7	14.9	15.0	15.2	15.4	15.4	13.5	11.5	11.5	12.0	11.6	10.4	9.1	8.1	7.6	8.1	7.8	7.8	8.3	10.6	12.2	12.4	11.3	9.6	8.5	8.2	15.4	10+	7.6	20	
APR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
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NOV	2.4	2.3	3.2	4.5	7.6	9.9	11.1	11.3	10.1	8.2	6.7	5.8	5.3	4.9	4.7	8.7	11.5	12.5	12.5	12.7	12.7	12.4	11.1	9.7	8.9	J 8.8	8.7	8.2	7.4	6.6	12.7	20+	2.3	2		
DEC	5.9	5.3	5.1	5.2	5.5	5.6	5.8	6.1	6.2	5.9	5.2	4.6	4.2	3.8	3.7	3.5	3.2	3.1	3.4	3.1	3.1	3.0	2.9	2.9	3.1	3.4	3.4	3.3	3.1	3.2	2.9	6.2	9	2.9	23+	

WABASH RIVER AT VINCENNES, IND.  
GAGE ZERO, 394.43 FEET, M.S.L. FLOOD STAGE, 16 FEET.

1955	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High	Low	Date	Day
JAN	6.3	7.9	8.6	8.5	8.2	9.2	10.1	11.0	11.5	11.8	11.9	12.1	12.2	F12.1	F 10.5	8.3	7.2	6.5	6.1	5.8	5.4	5.1	F 4.9	F 4.7	F 4.5	F 4.4	FG 4.2	FG 4.0	BF 3.7	BF 3.5	DF 5.9	12.2	13	BF 3.7	29
FEB	FG 6.0	FG 4.7	F 3.7	F 3.7	F 3.8	F 4.4	F 4.2	F 3.9	F 3.8	3.8	3.9	FG 4.2	FG 3.6	FG 3.4	F 3.5	F 3.6	4.1	4.7	4.8	4.8	4.9	5.6	6.5	7.0	7.0	6.9	7.7	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
MAR	8.4	9.0	10.3	11.1	12.2	12.7	12.5	12.5	12.6	12.6	12.7	12.4	10.9	9.8	9.9	10.3	9.6	8.7	7.8	7.1	8.2	8.7	7.8	7.5	8.2	9.7	10.6	10.3	9.2	8.1	7.5	12.7	6+	7.1	10
APR	7.4	7.5	7.8	7.9	7.5	7.0	6.5	6.0	5.7	5.4	5.3	5.4	6.1	9.2	9.6	9.3	8.5	7.9	7.5	7.1	6.6	6.2	7.1	9.7	9.9	9.2	8.6	8.8	9.7	9.9	9.9	9.9	9.9	9.9	9.9
MAY	9.2	8.0	7.0	6.0	6.0	5.6	5.4	5.2	4.9	4.7	4.6	4.5	4.5	4.5	4.6	5.3	6.1	5.9	5.3	4.9	4.6	4.4	4.3	4.2	4.3	4.9	5.1	5.1	5.7	6.7	7.1	9.2	1	4.2	24
JUN	7.2	6.5	5.7	5.0	4.6	4.4	4.2	4.4	5.3	6.7	7.7	7.9	9.1	9.9	9.8	9.1	8.4	6.2	7.7	6.9	6.2	5.7	5.3	5.0	4.7	4.7	4.3	4.1	4.0	3.8	3.6	9.5	14	3.8	30
JUL	3.7	3.6	3.5	3.4	3.3	3.3	3.4	3.2	3.1	3.2	3.5	3.6	3.6	3.7	3.8	4.2	5.2	5.6	8.0	10.0	9.7	8.4	6.6	5.7	5.3	5.7	5.4	4.9	4.6	4.4	4.1	10.0	20	3.1	9
AUG	3.8	3.6	3.5	3.4	3.5	3.5	3.4	3.5	3.4	3.2	3.1	3.5	3.7	3.6	3.3	3.1	3.0	2.8	2.8	2.7	2.6	2.6	2.6	2.5	2.5	2.4	2.4	2.4	2.6	2.7	2.6	3.8	1	2.4	27+
SEP	2.5	2.4	2.4	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.8	2.6	2.2	2.1	2.3	2.3	2.7	2.8	24	2.0	18+	
OCT	4.2	3.8	3.1	2.8	2.7	2.6	3.0	4.6	7.2	8.9	9.4	9.0	8.0	6.8	5.8	5.1	4.6	4.3	4.0	3.8	3.7	3.5	3.4	3.4	3.5	3.5	3.4	3.3	3.3	3.1	3.1	9.4	11	2.6	6
NOV	3.1	3.1	3.4	4.1	5.7	7.5	8.9	9.5	9.3	8.1	6.8	5.9	5.4	5.0	4.8	5.3	10.1	11.5	12.0	12.0	11.7	11.2	10.5	9.3	8.4	7.9	7.8	7.6	7.1	6.5	5.9	12.0	19+	3.1	1+
DEC	5.9	5.5	5.2	5.3	5.4	G 5.5	5.5	5.7	5.9	G 5.8	5.4	5.0	F 4.6	4.3	F 4.1	F 4.1	FG 3.9	F 3.7	F 3.7	F 3.8	3.6	F 3.6	3.5	3.5	3.6	3.8	3.8	3.8	3.7	3.7	3.6	5.9	1+	3.5	23+

WABASH RIVER AT MT. CARMEL, ILL.  
GAGE ZERO, 371.46 FEET, M.S.L. FLOOD STAGE, 17 FEET.

1955	Day of month																																	Highest or crest	Date
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# INDEX BY STATIONS

173

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
Monroe, La.	Ouchita	10	135	Red River Landing, La.	Mississippi	10	143
Montague City, Mass.	Connecticut	5	47	Red Wing, Minn.	do.	7	67
Montezuma, Ga.	Flint	6	49	Renovo, Pa.	Susquehanna—West Branch	5	32
Montezuma, Ind.	Wabash	8	54	Ressaca, Ga.	Oostanaula	6	51
Montgomery, Ala.	Alabama	6	54	Reserve, La.	Mississippi	10	143
Monticello, Miss.	Pearl	6	58	Rexburg, Idaho	Henry's Fork	11	161
Montpelier, Ohio	St. Joseph	5	22	Richmond, Tex.	Brazos	10	150
Montpelier, Vt.	Winooski	5	20	Richmond, Va.	James	5	37
Moorhead, Minn.	Red of the North	5	20	Rimini, S. C.	Sante	6	5
Morgan City, La.	Atchafalaya	10	145	Rio Grande City, Tex.	Rio Grande	11	154
Morrilton, Ark.	Arkansas	10	132	Rio Vista, Calif.	Sacramento	11	154
Morris, Ill.	Illinois	7	64	River Falls, Ala.	Concub	6	51
Mound City, Ill.	Ohio	9	103	Riverside, Tex.	Trinity	10	149
Mount Carmel, Ill.	Wabash	8	103	Riverton, Ind.	Wabash	8	103
Mount Morris, N.Y. (Jones Br.)	Genesee	5	35	Riverton, Va.	Shenandoah	5	35
Mount Vernon, Ga.	Coconee	47	6	Rochester, N. Y.	Genesee	5	24
Mount Vernon, Ind.	Ohio	9	120	Rock Hill, S. C.	Catawba	6	44
Mount Vernon, Wash.	Skagit	12	170	Rockdale, N. Y.	Unadilla	5	30
Mulberry, Ark.	Big Mulberry	10	107	Rockland, Tex.	Neches	10	147
Muncie, Ind.	White	8	98	Rockwall, Tex.	Trinity—East Fork	10	148
Murfreesville, Ky.	Green	8	98	Rocky Mount, N. C.	Tar	6	38
Muscataine, Iowa	Mississippi	7	69	Rome, Ga.	Oostanaula	6	51
Naples, Tex.	Sulphur	10	136	Roseburg, Oreg.	South Umpqua	1	10
Nashville, Tenn.	Cumberland	10	104	Roseton, Tex.	Trinity	10	10
Natchez, Miss.	Mississippi	10	142	Runney, Ky.	Green	8	98
Nebraska City, Nebr.	Missouri	7	80	Sacramento, Calif.	Sacramento	11	160
Neeley, Idaho	Snake	11	163	Saginaw, Mich.	Saginaw	5	22
Neillsville, Wis.	Black	6	60	St. Charles, Ark.	White	9	126
Neuse, N. C.	Neuse	6	39	St. Charles, Mo.	Missouri	10	82
New Braunfels, Tex.	Guadalupe	10	139	St. Francis, Ark.	St. Francis	10	139
Newburgh, Ind.	St. John	9	115-116	St. Helena, Ore.	Columbia	12	169
Newcomerstown, Ohio	Tuscarawas	8	87	St. John, Calif.	Stony Creek	11	10
New Harmony, Ind.	Wabash	8	104	St. Joseph, Mo.	Missouri	7	80
New Madrid, Mo.	Mississippi	10	141	St. Louis, Mo.	Mississippi	7	71
New Orleans, La.	do.	10	144	Ste. Marie, Ill.	Embarras	8	10
Newport, Ark.	White	9	124	St. Paul, Minn.	Mississippi	7	66
Newport, Pa.	Juniata	9	33	St. Paul, N.Y.	Clark Fork	11	10
New Richmond, Ohio	Ohio	9	115-116	St. Thomas, Mo.	Osage	7	78
Newton, Ala.	Choctawhatchee	6	50	Salem, Oreg.	Willamette	11	166
Nicolaus, Calif.	Feather	11	159	Salida, Colo.	Arkansas	10	10
Noblesville, Ind.	White—West Fork	8	100	Salina, Kans.	Smoky Hill	7	74
Norcross, Ga.	Chattahoochee	6	48	Salmon, Idaho	Salmon	11	152
Norfolk, Nebr.	Elkhorn	7	73	Santa Rosa, N. Mex.	Pecos	10	140
Norris Dam, Tenn. (Headwater)	Clinch	9	107	Savannah, Tenn.	Goldens	10	149
North Platte, Nebr.	North Platte	7	72	Scandia, Kans.	Tennessee	9	100
do.	South Platte	7	72	Schenectady, N. Y.	Republican	7	27
North Stratford, N. H.	Connecticut	5	26	Scio, N. Y.	Mohawk	5	27
Oklahoma City, Okla.	North Canadian	9	129	Selma, Ala.	Genesee	5	5
Old Town Bay, La.	Calcasieu	10	10	Selma, Ind.	Alabama	6	54
Olean, N. Y.	Allegheny	7	83	Seymour, Ind.	White—East Fork	8	99
Omaha, Nebr.	Missouri	8	7	Shelburne, N. Y.	Chenango	8	30
Orange, Tex.	Sabine	10	147	Shoals, Ind.	White—East Fork	8	99
Orangeburg, S. C.	Edisto—North Fork	6	10	Shreveport, La.	Red	10	137
Orangeton City, Oreg.	Willamette	11	166	Shubuta, Miss.	Chickasawhay	6	57
Osceola, Mo.	Osage	7	77	Sidney, Ohio	Miami	8	95
Oswego, Kans.	Neosho	9	128	Simmesport, La.	Atchafalaya	10	145
Oswatimie, Kans.	Marais des Cygnes	7	10	Sioux City, Iowa	Missouri	7	79
Ottawa, Kans.	do.	77	7	Smithfield, N. C.	Colorado	10	150
Ottawa, Iowa	Des Moines	7	63	Smithville, Tex.	Colorado	10	150
Owensboro, Ky.	Ohio	9	119	Snohomish, Wash.	Snohomish	12	170
Ozark, Ark.	Arkansas	10	132	South Newbury, Vt.	Connecticut	5	10
Paducah, Ky.	Ohio	9	121	Spalding, Idaho	Clearwater	11	162
do.	Tennessee	9	110	Spencer, Ind.	West Fork	8	100
Pagosa Springs, Colo.	San Juan	11	156	Spokane, Wash.	Spokane	11	161
Paintsville, Ky.	Ohio	8	91	Springbank, Calif.	Salinas	10	10
Parkersburg, W. Va.	Ohio	9	132	Springfield, Mass.	Red	10	10
Parker, Pa.	Allegheny	8	84	Springfield, Ohio	Connecticut	5	27
Parkin, Ark.	St. Francis	10	139	Springfield, W. Va.	Mad.	8	94
Patterson, Ark.	Catche	9	10	Sullivan, Mo.	Potomac—South Branch	5	10
Pearl River, La.	Pearl	6	59	Sunbury, Pa.	Meramec	7	65
Pedee, S. C.	Pee Dee	6	42	Susquehanna, Pa.	Susquehanna	5	34
Pelzer, S. C.	Saluda	5	25	Youghiogheny	Youghiogheny	10	140
Penacook, N. H.	Contoocook	5	25	Tallahatchee	Tallahatchee	6	39
Pennington, Ala.	Tombigbee	6	56	Tarboro, N. C.	Tar	6	39
Peoria, Ill.	Illinois	7	64	Terre Haute, Ind.	Wabash	8	103
Perkins, Okla.	Cimarron	9	127	The Dalles, Oreg.	Columbia	12	168
Perryville, Tenn.	Tennessee	9	110	Three Rivers, Tex.	Nueces	11	10
Peru, Ind.	Wabash	8	102	Tiffin, Ohio	Sandusky	5	23
Petersburg, Ind.	Whip	10	101	Union, Mo.	Ohio	7	65
Philadelphia, Pa.	Schuylkill	5	29	Upper Sandusky, Ohio	Sandusky	5	23
Philippi, W. Va.	Tygart	8	84	Valley Junction, Tex.	Brazos	10	149
Pierre, S. Dak.	Missouri	7	79	Valley Park, Mo.	Meramec	7	66
Piketon, Ohio	Scioto	8	93	Van Buren, Ark.	Arkansas	10	132
Pikeville, Ky.	Levisa Fork	8	91	Vanceburg, Ky.	Ohio	9	10
Pine Bluff, Ark.	Arkansas	10	133	Vancouver, Wash.	Columbia	12	169
Piqua, Ohio	Miami	8	95	Vandergrift, Pa.	Kiskiminetas	7	83
Pittsburgh, Pa.	Ohio	9	111	Van Meter, Iowa	Raccoon	7	62
Pleasant Hill, Ohio	Stillwater	8	94	Veal, N. Y.	Susquehanna	5	34
Plymouth, N. H.	Pemigewasset	5	25	Vicksburg, Miss.	Mississippi	10	142
Point Pleasant, W. Va.	Ohio	9	113	Victoria, Tex.	Guadalupe	11	152
Poplar Bluff, Mo.	Black	9	123	Vincennes, Ind.	Wabash	8	103
Portage, Wis.	Wisconsin	6	61	Wabash, Ind.	do.	8	101
Port Jervis, N. Y.	Delaware	6	29	Waco, Tex.	Brazos	10	149
Portland, Mich.	Grand	5	25	Wahpeton, N. Dak.	Red of the North	5	20
Portland, Oreg.	Willamette	11	167	Wakefield, Kans.	Republican	7	10
Portsmouth, Ohio	Ohio	9	115	Wamego, Kans.	Kansas	7	75
Poston, S. C.	Pee Dee	6	10	Warren, Pa.	Iowa	7	62
Prairie du Chien, Wis.	Mississippi	7	68	Warsaw, Mo.	Allegheny	7	83
Priest River, Idaho	Pend Oreille	11	10	Washington, D. C.	Osage	7	77
Prospect, Ohio	Scioto	8	95	do.	Missouri	7	10
Prospect, Tenn.	Elk	9	107	do.	Potomac	5	10
Pueblo, Colo.	Arkansas	10	132	do.	do.	5	10
Quenemo, Kans.	Marais des Cygnes	7	10	do.	do.	5	10
Quincy, Ill.	Mississippi	7	70	do.	do.	5	10
Radford, Va.	New	8	89	do.	do.	5	10
Rainbow, Tex.	Brazos	10	10	do.	do.	5	10
Ralston, Okla.	Arkansas	10	131	do.	do.	5	10
Randle, Wash.	Cowlitz	11	167	do.	do.	5	10
Randolph, Va.	Roanoke	5	37	do.	do.	5	10
Rapidan, Va.	Rapidan	5	10	do.	do.	5	10
Ravenswood, W. Va.	Ohio	9	112-113	do.	do.	5	10
Raygold, Oreg.	Rogue	11	10	do.	do.	5	10
Reading, Pa.	Schuylkill	5	28	do.	do.	5	10
Reade Landing, Minn.	Mississippi	7	67	do.	do.	5	10
Red Bluff, Calif.	Sacramento	11	159	do.	do.	5	10



U. S. DEPARTMENT OF COMMERCE  
Sinclair Weeks, Secretary

WEATHER BUREAU  
F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

REFERENCE  
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VOLUME LII  
1956

Community Affairs File



WASHINGTON: 1958

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# DAILY RIVER STAGES-1956

## INTRODUCTION

This volume, containing the daily river stages for 1956 is the fifty-second of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

### DAILY RIVER STAGES

Volume XLV. 1949	Volume XLVII. 1951	Volume XLIX. 1953
XLVI. 1950	XLVIII. 1952	L. 1954
		LI. 1955

Volumes XLV to LII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of the Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.



## INTRODUCTION

## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Delaware River tributaries in Pennsylvania southward to and including the Lehigh River Basin.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River and the Pecos River in Texas.
Buffalo, N. Y.....	Lake Erie and Lake Ontario drainage area from, but not including, the Genesee River basin westward to the New York-Pennsylvania State line.
Burlington, Iowa.....	Mississippi River from below Muscatine, Iowa, to, but not including, Dam No. 24 and tributaries, except: the Iowa River above Wapello, Iowa, the Skunk River above Augusta, Iowa, and the Des Moines River above Keosauqua, Iowa.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa River and tributaries above Wapello, Iowa; Skunk River and tributaries above Augusta, Iowa; Des Moines River and tributaries above Keosauqua, Iowa.
Dodge City, Kans.....	Arkansas River and tributaries from the Colorado-Kansas State line, downstream to and including Great Bend, Kans.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to but not including the mouth of the Pecos River.
Eureka, Calif.....	California Coast drainage from Point Delgada northward except the Klamath River and tributaries above the California-Oregon State line.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fort Worth, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo...	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River and tributaries at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
Lake Charles, La.....	Sabine River and tributaries below Logansport, La.; Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.

## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon Coast drainage southward from and including Umpqua River; the Klamath River and tributaries above the California-Oregon State line; the Great Basin in Oregon except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Neb.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico. Red River and tributaries at and above Denison Dam.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries and other coastal drainage between those basins.
Philadelphia, Pa.....	Delaware River and tributaries, except Pennsylvania tributaries southward to and including the Lehigh River and the Schuylkill River above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.).
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River, Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Rochester, N. Y.....	Genesee River and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River and tributaries in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah...	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, San Antonio and Lavaca Rivers and tributaries.
San Francisco, Calif...	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries below Denison Dam to and including Alexandria, La.; the upper Sabine River and tributaries at and above Logansport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.
Trenton, N. J.....	The Atlantic drainage area between the Hudson and the Delaware River Basins.
Tulsa, Okla.....	Arkansas River and tributaries below the Kansas-Oklahoma State line to and including Van Buren, Ark., except the Canadian River and the Verdigris and Neosho Rivers in Kansas.
Vicksburg, Miss.....	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac and Rappahannock Rivers and tributaries.
Wichita, Kans.....	Arkansas River and tributaries above the Kansas-Oklahoma State line to, but not including Great Bend, Kans., the Verdigris and Neosho Rivers and tributaries above the Kansas-Oklahoma State line.



## RIVER STATIONS AND MISCELLANEOUS INFORMATION

[River stations, arranged by drainage areas, and miscellaneous information pertaining thereto]

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM--Continued							Feet		Feet	
Ohio Basin--Continued										
Elkins, W. Va.	Tygart	8	1,901.65	86.0	266	17	18.8	Oct. 16, 1854	3.74	Oct. 20, 1953
Philippi, W. Va.	do	38	1,280.55	46.0	916	17	24.1	Oct. 16, 1854	1.08	Oct. 10-12, 1953
Weston, W. Va.	West Fork	54	993.84	69.0	133	17	25.5	June 25, 1850	0.79	Aug. 9, 1952
Confluence, Pa.	Youghiogheny	84	1,302.77	67.0	1,028	12	Y21.9	Mar. 28, 1924	0.31	Oct. 14, 1943
Connellsville, Pa.	do	49	860.13	45.0	1,326	16	21.96	Oct. 16, 1854	0.1	Sept. 23, 1908
Sutersville, Pa.	do	41	733.36	13.5	1,715	20	32.5	Oct. 16, 1954	1.96	July 10, 1918
Lock No. 15, Moulton, W. Va. (Lower gage)	Monongahela	53	838.91	124.2	2,388	28	29.4	Jan. 2, 1919	0.7	Dec. 6, 1908
Lock No. 7, Greensboro, Pa. (Lower gage)	do	69	753.00	84.8	4,407	37	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa. (Lower gage)	do	71	716.17	41.5	5,213	28	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	do	44	718.25	14.6	7,161	12	28.8	Mar. 18, 1936	0.6	Aug. 14, 1944
Beaver Falls, Pa.	Beaver	49	727.48	5.5	3,106	15	17.4	Mar. 27, 1913	1.7	Aug. 20-25, 1951
Newcomerstown, Ohio	Tuscarawas	29	780.00	21.1	2,436	.....	Z21.25	Aug. 9, 1935	1.52	Sept. 15, 1954
Zanesville, Ohio	Muskingum	66	685.00	76.8	6,844	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1893
McConnellsville, Ohio	do	44	650.31	49.6	7,411	11	33.5	Mar. 27, 1913	-0.65	Aug. 25, 1930
Glenville, W. Va.	Little Kanawha	56	697.79	103.0	386	23	33.6	Nov. 16, 1926	-0.9	Nov. 10, 1908
Creston, W. Va.	do	56	621.71	48.1	1,235	20	33.2	Apr. 17, 1938	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	41	615.59	31.6	944	17	23.0	Mar. 7, 1939	2.0	Aug. 13, 1941
Camden on Gauley, W. Va.	Gauley	41	2,003.28	71.0	236	23	18.42	July 19, 1954	0.84	Oct. 26-27, 1953
Galax, Va.	New	15	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	0.6	July 9, 1930
Radford, Va.	do	61	1,712.36	145.0	2,748	14	35.96	Aug. 14, 1940	1.08	Aug. 25-27, 1944
Glenlyn, Va.	do	31	1,489.76	95.0	3,768	15	27.5	Aug. 14, 1940	1.38	Sept. 29, 1955
Hinton, W. Va.	do	70	1,356.44	63.4	6,288	14	20.2	Sept. 13, 1878	0.23	Sept. 25-26, 1953
Clay, W. Va.	Elk	42	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	M-0.06	Oct. 16-Nov. 8, 1953
Kanawha Falls, W. Va.	Kanawha	43	623.20	95.0	8,367	25	29.6	Aug. 15, 1940	-0.95	Aug. 15, 1930
London Dam, London, W. Va.	do	23	581.00	82.8	8,552	43	40.9	Aug. 15, 1940	.....	.....
Charleston, W. Va.	do	84	548.00	54.4	10,419	.....	48.9	Mar. 5, 1899	.....	.....
Logan, W. Va.	Guyandot	35	639.08	81.4	859	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923
Kermit, W. Va.	Tug Fork	26	574.77	35.5	1,268	38	43.5	Feb. 28, 1955	1.4	Oct. 4, 1920
Pikeville, Ky.	Lewis Fork	49	633.18	88.5	1,237	36	48.5	Mar. 23, 1929	0.1	Oct. 5, 1951
Paintsville, Ky.	do	29	566.84	38.5	2,143	40	42.15	Feb. 4, 1939	1.1	July 23, 1930
Louisa, Ky.	Big Sandy	68	512.81	26.6	3,821	45	48.0	Feb. 5, 1939	0.7	Nov. 18, 1884
Delaware, Ohio	Olentangy	47	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921
La Rue, Ohio	Scioto	41	910.19	198.2	255	11	15.0	Mar. 20, 1927	1.8	June 5, 1941
Prospect, Ohio	do	50	891.93	175.2	554	12	17.0	Mar. 22, 1927	0.2	Oct. 2, 1910
Columbus, Ohio	do	59	700.03	131.9	1,813	22	P22.9	Mar. 25, 1913	-0.8	July 27, 1923
Circleville, Ohio	do	45	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.42	Oct. 4, 1953
Chillicothe, Ohio	do	49	594.02	70.4	3,847	16	39.8	Mar. 26, 1913	0.85	Sept. 27, 1944
Pikeville, Ohio	do	14	531.39	35.0	5,824	16	28.8	Mar. 7, 1945	0.00	Nov. 10-15, 1955
Kings Mills, Ohio	Little Miami	44	587.10	31.2	1,048	17	26.77	Apr. 20, 1940	0.5	July 3, 1914
Cynthiana, Ky.	South Fork Licking	40	688.52	46.0	815	20	23.3	Apr. 13, 1948	0.5	June 15, 1936
Farmers, Ky.	Licking	41	646.55	172.0	826	25	31.1	Feb. 9, 1918	1.0	July 13-14, 1945
Falmouth, Ky.	do	70	511.16	51.2	2,320	28	41.6	Apr. 14, 1948	-0.1	Oct. 14-27, 1930
Pleasant Hill, Ohio	Stillwater	41	846.55	29.2	502	13	17.5	Jan. 14, 1937	0.6	July 26, 1941
Springfield, Ohio	Mad	42	881.42	23.6	485	11	15.1	Feb. 26, 1928	1.2	Dec. 4, 1944
Brookville, Ind.	Whitewater	39	595.71	27.0	1,239	20	25.56	Feb. 26, 1929	0.1	Sept. 25-Oct. 2, 1941
Sidney, Ohio	Miami	43	924.65	134.8	545	12	14.4	Mar. 20, 1927	-0.2	Sept. 23, 1940
Piquette, Ohio	do	46	844.00	122.1	842	17	29.1	Mar. 25, 1913	0.7	Sept. 17, 1941
Tipp City, Ohio	do	34	786.77	104.5	1,016	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941
Dayton, Ohio	do	64	721.01	83.0	2,513	21	31.7	Mar. 25-26, 1913	-0.1	Sept. 28, 1941
Miamisburg, Ohio	do	34	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1929
Franklin, Ohio	do	34	658.41	61.3	2,780	16	16.7	Jan. 22, 1937	0.0	Oct. 3, 1954
Middletown, Ohio	do	34	626.00	53.6	3,162	14	17.5	Feb. 27, 1929	.....	.....
Hamilton, Ohio	do	47	560.00	35.3	3,639	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 26, 1932
Hazard, Ky.	North Fork Kentucky	41	839.76	96.0	466	20	33.76	May 30, 1927	0.7	Oct. 13-19, 1954
Jackson, Ky.	do	29	687.67	46.0	1,103	29	43.1	Feb. 4, 1939	0.0	Sept. 11-19, 1954
Lock No. 14, Heidelberg, Ky.	Kentucky	41	625.8	249.0	2,657	30	35.6	Feb. 4, 1939	2.9	Nov. 22, 1953
Lock No. 10, Ford, Ky.	do	54	556.7	176.4	3,956	25	35.1	Mar. 29, 1913	8.2	Oct. 25-28, 1953
Lock No. 7, Highbridge, Ky.	do	56	503.9	117.0	5,038	30	42.2	Jan. 23, 1937	4.7	Nov. 24-26, 1912
Lock No. 4, Frankfort, Ky.	do	68	482.1	65.0	5,412	31	47.46	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	33	409.83	37.6	1,680	28	44.63	Mar. 24, 1952	a0.0	Oct. 18, 1923
Dundee, Ky.	Rough	17	393.18	62.5	752	25	29.0	Jan. 14, 1950	.....	.....
Munfordville, Ky.	Green	32	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do	50	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do	58	373.80	149.5	5,446	33	59.0	Jan. 24, 1937	5.0	Sept. 17, 1902
Lock No. 2, Calhoun, Ky. (Upper gage)	do	58	354.4	62.8	7,681	23	43.62	Jan. 31, 1937	P3.7	July 28, 1902
Danville, Ill.	Vermillion	42	503.33	18.7	1,280	18	28.99	Mar. 13, 1939	.....	.....
Crawfordsville, Ind.	Sugar Creek	17	657.76	39.2	509	8	14.02	May 18, 1943	0.94	Sept. 24-27, 1941
St. Marie, Ill.	Embarras	17	446.75	47.2	1,840	18	b24.95	Jan. 4, 1950	0.06	Sept. 18-19, 1954
Bowling Green, Ind.	Zel	26	548.02	38.8	844	17	23.53	Jan. 4, 1950	0.34	Oct. 4-5, 1954
Columbus, Ind.	East Fork White	9	603.12	192.0	1,692	10	15.12	Jan. 28, 1952	0.78	Oct. 7, 1954
Seymour, Ind.	do	34	550.67	167.6	2,333	14	19.74	Jan. 5, 1949	c0.0	Sept. 14-Oct. 14, 1954
Bedford, Ind.	do	18	469.20	93.0	4,060	20	32.7	Jan. 8, 1950	.....	.....
Williams, Ind.	do	36	472.56	79.2	4,690	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do	49	442.25	56.1	4,954	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Muncie, Ind.	White	33	920.10	304.8	242	--	18.07	Jan. 15, 1927	0.47	Sept. 15-Oct. 3, 1954
Anderson, Ind.	do	46	825.02	285.7	401	10	23.6	Mar. 25, 1913	.....	.....
Noblesville, Ind.	do	43	738.18	282.0	837	14	20.1	May 19, 1943	3.0	Aug. 29, 1914
Indianapolis, Ind.	do	46	672.82	238.4	1,610	12	29.5	Mar. 26, 1913	2.0	Sept. 17-21, 1941
Spencer, Ind.	do	31	526.04	165.9	2,980	14	23.2	Jan. 16, 1927	0.88	Sept. 25, 30, & Oct. 1, 1941
Ellettsville, Ind.	do	49	472.94	129.8	4,470	18	31.3	Mar. 27, 1913	5.18	Oct. 8, 1954
Edwardport, Ind.	do	34	433.20	84.2	5,000	12	26.25	Jan. 8, 1950	1.7	Jan. 2, 1945
Petersburg, Ind.	do	22	400.00	47.8	11,139	16	28.38	Jan. 22, 1937	0.0	Aug. 26, 1936
Bazelon, Ind.	do	32	383.23	18.9	11,319	16	31.6	Jan. 22, 1937	.....	.....
Bluffton, Ind.	Wabash	46	793.01	423.9	506	10	20.0	Mar. 26, 1913	0.2	July 26, 1934
Huntington, Ind.	do	6	700.00	409.0	710	20	.....	.....	.....	.....
Wabash, Ind.	do	34	642.66	376.8	1,733	12	24.22	May 18, 1943	1.66	Aug. 4, 5, 9, 1934
Peru, Ind.	do	12	622.73	362.4	2,655	20	24.10	May 18, 1943	1.4	Sept. 10, 1944
Logansport, Ind.	do	39	573.28	343.2	3,751	17	d25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
Lafayette, Ind.	do	43	504.14	301.4	7,247	11	28.4	May 18, 1943	0.3	Sept. 25, 1941
Covington, Ind.	do									



DAILY RIVER STAGES

1956	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High or Low	Date	Low	Date
JAN	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.7	3.0	3.1	3.5	1	3.5	1	
FEB	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.7	3.0	3.1	3.5	1	3.5	1
MAR	15.2	15.3	15.4	15.2	14.5	13.4	12.1	11.5	10.9	11.1	11.4	11.1	10.2	9.1	8.4	9.0	11.3	12.4	12.7	12.9	13.0	12.6	12.5	13.1	14.1	14.8	15.0	15.1	15.1	15.1	15.1	15.1	15.1	15.1	
APR	7.0	7.6	7.6	9.9	10.8	9.2	7.8	7.6	8.0	7.8	7.3	8.8	6.4	6.1	6.0	5.7	5.4	5.2	5.0	4.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	
MAY	5.8	6.4	6.2	9.0	9.1	8.9	9.2	9.6	8.7	7.5	6.7	6.4	6.1	6.2	7.1	7.4	7.1	6.6	6.2	5.8	5.7	5.4	5.2	5.6	6.2	7.2	6.7	6.4	6.5	11.5	12.9	3.1	5.0	24	
JUN	14.1	14.6	15.0	15.3	15.2	14.7	13.0	9.6	8.1	7.1	6.4	5.9	5.3	5.2	5.0	4.8	4.6	4.5	4.4	4.8	4.4	5.4	10.3	12.4	12.8	12.0	9.4	7.9	7.3	7.0	15.3	4	4.4	19	
JUL	6.4	5.9	5.7	5.5	4.0	4.8	5.8	6.2	5.3	4.7	4.5	4.3	4.3	5.1	4.5	4.2	3.4	6.8	8.1	8.2	6.7	5.6	5.3	5.8	6.2	5.8	5.2	4.7	4.5	4.3	4.0	8.2	20	4.0	54
AUG	3.8	4.1	4.1	4.7	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
SEP	2.6	2.6	2.7	3.1	2.9	2.7	2.6	2.6	2.5	2.5	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
OCT	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
NOV	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
DEC	2.4	2.3	2.3	2.3	2.3	2.2	2.8	3.5	3.4	4.3	4.3	4.0	3.7	3.5	3.4	3.4	3.3	3.2	3.2	3.2	3.1	3.1	3.4	3.6	3.6	3.5	3.4	3.4	3.5	3.4	3.4	3.4	3.4	3.4	

J-CREST 19:22 AT 2 AM; K-CREST 18:04 AT 3:30 PM; ALSO SEE REFERENCE  
NOTES FOLLOWING CORRIGENDA.



## INDEX BY STATIONS

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
Montezuma, Ind.	Wabash	6	55	Rosacea, Ga.	Constantia	6	52
Montgomery, Ala.	Alabama	6	60	Reserve, La.	Mississippi	10	144
Monticello, Miss.	Pearl	5	23	Rexburg, Idaho	Henry Fork	11	162
Montpelier, Ohio	St. Joseph	5	25	Richmond, Va.	Braxton	10	151
Montpelier, Vt.	Winooski	5	21	Richmond, Tex.	James	5	38
Moorhead, Minn.	Red of the North	5	105	Rio Grande City, Tex.	Rio Grande	11	155
Morgan City, La.	Atchafalaya	10	133	Rio Vista, Calif.	Sacramento	11	155
Morrilton, Ark.	Arkansas	10	133	River Falls, Ala.	Conecuh	6	52
Morris, Ill.	Illinois	7	65	Riverside, Tex.	Trinity	10	150
Mound City, Ill.	Ohio	9	105	Riverton, Ind.	Wabash	8	104
Mount Carmel, Ill.	Wabash	8	105	Rochester, N. Y.	Seneca	5	25
Mount Morris, N. Y. (Jones Br.)	Genesee	5	48	Rock Hill, S. C.	Catawba	6	45
Mount Vernon, Ga.	Oconee	6	121	Rockdale, N. Y.	Unadilla	5	31
Mount Vernon, Ind.	Shagb	12	171	Rockland, Tex.	Neches	10	148
Mount Vernon, Wash.	Big Mulberry	9	-	Rockwall, Tex.	Trinity-East Fork	10	149
Mulberry, Ark.	White	8	99	Rocky Mount, N. C.	Tar	6	39
Muncie, Ind.	Green	8	70	Rome, Ga.	Constantia	6	52
Murfreesville, Ky.	Mississippi	10	137	Roseburg, Oreg.	South Umpqua	11	161
Muscatoine, Iowa	Sulphur	8	106	Rosser, Tex.	Trinity	10	-
Naples, Tex.	Mississippi	10	143	Sacramento, Calif.	Sacramento	11	161
Nashville, Tenn.	Missouri	7	81	Saginaw, Mich.	Saginaw	5	23
Natchez, Miss.	Snake	11	164	St. Charles, Ark.	White	9	127
Nebraska City, Nebr.	Nebraska	6	81	St. Charles, Mo.	Missouri	10	140
Neeley, Idaho	Snake	6	40	St. Francis, Ark.	Columbia	12	170
Neillsville, Wis.	Nebraska	6	81	St. Helena, Oreg.	Stony Creek	11	-
Neuse, N. C.	Guadalupe	9	-	St. John, Calif.	Missouri	7	81
New Braunfels, Tex.	Ohio	9	-	St. Joseph, Mo.	Mississippi	7	71
Newburgh, Ind.	Tuscarawas	8	88	St. Louis, Mo.	Embarras	8	-
Newcomertown, Ohio	Wabash	8	105	St. Marie, Ill.	Mississippi	7	67
New Harmony, Ind.	Mississippi	10	142	St. Paul, Minn.	Clark Fork	11	161
New Orleans, La.	do	10	145	St. Regis, N. Y.	Onaga	7	79
Newport, Ark.	White	9	125	St. Thomas, Mo.	Willamette	11	167
Newport, Pa.	Juniata	5	34	Salina, Oreg.	Arkansas	10	-
New Richmond, Ohio	Ohio	9	117	Salida, Colo.	Smoky Hill	7	75
Newton, Ala.	Ghettowatches	6	51	Salina, Kans.	Salmon	11	162
Nicolaus, Calif.	Feather	11	160	Salmon, Idaho	Beacon	11	163
Noblesville, Ind.	White	8	101	Santa Rosa, N. Mex.	Coldwater	10	141
Norcross, Ga.	Chattahoochee	6	49	Saras, Miss.	Tennessee	9	111
Norfolk, Nebr.	Elkhorn	7	74	Savannah, Tenn.	Republican	7	-
Norris Dam, Tenn. (Headwater)	Clinch	9	108	Scandia, Kans.	Schenectady, N. Y.	5	28
North Platte, Nebr.	North Platte	7	73	Scio, N. Y.	Genesee	5	-
North Stratford, N. H.	South Platte	7	73	Selma, Ala.	Alabama	6	55
Oakland City, Okla.	Connecticut	5	27	Seymour, Ind.	White-East Fork	8	100
Old Town Bay, La.	North Canadian	9	130	Sherburne, N. Y.	Chequamegon	5	31
Olean, N. Y.	Calcasieu	10	148	Shoals, Ind.	White-East Fork	8	100
Omaha, Nebr.	Allegany	7	84	Shreveport, La.	Red	10	138
Orange, Tex.	Missouri	7	81	Shubuta, Miss.	Chickasawhay	6	58
Orangeburg, S. C.	Sabine	10	148	Sidney, Ohio	Miami	8	98
Oregon City, Oreg.	Edisto-North Fork	6	-	Simmsport, La.	Atchafalaya	10	146
Oswego, N. Y.	Willamette	11	167	Sioux City, Iowa	Neuse	7	80
Owosso, Mich.	Onaga	7	78	Smithfield, N. C.	Colorado	10	161
Owensboro, Kans.	Neosho	9	129	Smithville, Tex.	Snohomish	12	171
Owensboro, Kans.	Marion des Cygnes	7	78	Snohomish, Wash.	Connecticut	5	-
Owensboro, Iowa	Des Moines	7	84	South Newbury, Vt.	Clearwater	11	163
Owensboro, Ky.	Ohio	9	120	Spalding, Idaho	White	10	161
Ozark, Ark.	Arkansas	10	133	Spencer, Ind.	Spokane	11	162
Paducah, Ky.	Ohio	9	112	Spokane, Wash.	Salinas	11	-
Pagosa Springs, Colo.	Tennessee	11	157	Spreckels, Calif.	Red	10	-
Painville, Ky.	San Juan	8	92	Spring Bank, Ark.	Connecticut	5	28
Parkersburg, N. Va.	Lavina Fork	9	113	Springfield, Mass.	Mad	8	95
Parker, Pa.	Allegheny	7	85	Springfield, Ohio	Potomac-South Branch	5	35
Parkinson, Ark.	St. Francis	10	140	Springfield, W. Va.	Susquehanna	5	35
Patterson, Ark.	Catch	9	122	Sullivan, Mo.	Youghiogheny	8	86
Pearl River, La.	Pearl	6	60	Sunbury, Pa.	Tallahatchie	10	141
Peaslee, S. C.	Pee Dee	6	43	Sutersville, Pa.	Tar	6	40
Peaslee, N. C.	Saluda	6	43	Swan Lake, Miss.	Wabash	8	104
Peaslee, N. H.	Contoocook	5	26	Tarboro, N. C.	Columbia	11	166
Pennington, Ala.	Tombigbee	6	57	Terre Haute, Ind.	Sandusky	5	24
Peoria, Ill.	Illinois	7	65	The Dalles, Oreg.	Miami	8	98
Perkins, Okla.	Clinch	9	113	Tiffin, Ohio	Kansas	7	76
Perkyville, Tenn.	Ohio	9	128	Topeka, Kans.	Susquehanna	5	35
Perry, Ind.	Wabash	8	103	Towanda, Pa.	Des Moines	7	84
Petersburg, Ind.	White	8	102	Tracy, Iowa	Thompson Fork	7	77
Philadelphia, Pa.	Schuylkill	5	30	Trenton, Mo.	Delaware	5	30
Philippi, N. Y.	Tygart	8	85	Tribes Hill, N. Y.	Mohawk	5	28
Pierson, S. Dak.	Missouri	7	80	Trinidad, Tex.	Columbia	11	-
Piketon, Ohio	Scioto	8	94	Trinidad, Wash.	Arkansas	10	132
Pikeville, Ky.	Lavina Fork	8	92	Tulsa, Okla.	Black Warrior	6	56
Pine Bluff, Ark.	Arkansas	10	134	Tuscaloosa Lock and Dam, Ala.	Columbia	11	169
Piqua, Ohio	Missi	9	96	Usatilla, Oreg.	Susquehanna	5	34
Pittsburgh, Pa.	Ohio	9	112	Unadilla, N. Y.	Bourbeuse	7	68
Pleasant Hill, Ohio	Stillwater	8	95	Unadilla, Mo.	Ohio	9	121
Plymouth, N. H.	Pemigewasset	5	26	Upper Sandusky, Ohio	Sandusky	5	24
Pontiac, Mich.	St. Lawrence	11	168	Valley Junction, Tex.	Braxton	10	150
Port Jervis, N. Y.	Delaware	5	30	Valley Park, Mo.	Meramec	7	67
Portland, Mich.	Willamette	11	168	Van Buren, Ark.	Arkansas	10	133
Portland, Oreg.	Ohio	9	118	Vanceburg, Ky.	Ohio	6	-
Portsmouth, Ohio	Scioto	8	93	Vancouver, Wash.	Columbia	12	169
Poston, S. C.	Mississippi	7	69	Vandergrift, Pa.	Kiskiminetus	7	84
Preble, Ohio	Scioto	8	93	Van Meter, Iowa	Raccoon	7	63
Preble River, Idaho	Arkansas	10	132	Vestal, N. Y.	Susquehanna	5	35
Prospect, Ohio	Scioto	8	93	Vicksburg, Miss.	Mississippi	10	143
Prospect, Tenn.	Arkansas	10	132	Victoria, Tex.	Guadalupe	10	153
Prucha, Colo.	Arkansas	10	132	Vincennes, Ind.	Wabash	8	104
Quasno, Kans.	Arkansas	10	132	Waco, Tex.	Braxton	10	150
Quincy, Ill.	Arkansas	10	132	Wahpeton, N. Dak.	Red of the North	5	21
Rainbow, Tex.	Coville	11	168	Wakarusa, Kans.	Republican	7	-
Ralston, Okla.	Wapello	5	38	Wamego, Kans.	Kansas	7	76
Randolph, Wash.	Rapidan	6	38	Wapello, Iowa	Iowa	7	63
Rapidan, Va.	Rapidan	6	38	Warren, Pa.	Allegheny	8	78
Ravenwood, N. Y.	Ohio	9	114	Warren, Mo.	Onaga	7	78
Raymond, Oreg.	Ohio	9	114	Washington, N. Dak.	Missouri	7	-
Reading, Pa.	Schuylkill	5	29	Washington, D. C.	Potomac	5	-
Red Bluff, Calif.	Sacramento	11	160	Washington (near), D. C.	do	5	37
Red River Landing, La.	Mississippi	10	144	Washington, Tex.	Braxton	10	151
Red Wing, Minn.	do	7	68	Washington, W. Va.	Ohio	9	-
Renovo, Pa.	Susquehanna-West Branch	5	33	Waterloo, Iowa	Cedar	6	62

U. S. DEPARTMENT OF COMMERCE  
Frederick H. Mueller, Secretary

WEATHER BUREAU  
F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

REFERENCE  
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VOLUME LIII  
1957

Community Affairs File



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# DAILY RIVER STAGES-1957

## INTRODUCTION

This volume, containing the daily river stages for 1957 is the fifty-third of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS

#### OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

#### DAILY RIVER STAGES

Volume XLV. 1949	Volume XLVIII. 1952	Volume LI. 1955
XLVI. 1950	XLIX. 1953	LII. 1956
XLVII. 1951	L. 1954	

Volumes XLV to LIII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Important crest stages are noted below the table. Extreme stages for a month may or may not have occurred at the regular time for reading the gage.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of the Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.

## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Delaware River tributaries in Pennsylvania southward to and including the Lehigh River Basin.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries, from and including Fort Peck Dam, to the North Dakota-South Dakota State Line except the Milk and Yellowstone; the James River Basin in North Dakota.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Boston, Mass.....	Charles and Neponset Rivers and other coastal streams of eastern Massachusetts south of the Merrimack River Basin to, but not including, the Taunton River Basin.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River and the Pecos River in Texas.
Buffalo, N. Y.....	Lake Erie and Lake Ontario drainage area from, but not including, the Genesee River Basin westward to the New York-Pennsylvania State line.
Burlington, Iowa.....	Mississippi River from below Muscatine, Iowa, to, but not including, Dam No. 24 and tributaries, except: the Iowa River above Wapello, Iowa, the Skunk River above Augusta, Iowa, and the Des Moines River above Keosauqua, Iowa.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa River and tributaries above Wapello, Iowa; Skunk River and tributaries above Augusta, Iowa; Des Moines River and tributaries above Keosauqua, Iowa.
Dodge City, Kans.....	Arkansas River and tributaries from the Colorado-Kansas State line, downstream to and including Great Bend, Kans.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to but not including the mouth of the Pecos River.
Eureka, Calif.....	California Coast drainage from Point Delgada northward except the Klamath River and tributaries above the California-Oregon State line.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fort Worth, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo...	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames River and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River and tributaries at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.



## ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Lake Charles, La.....	Sabine River and tributaries below Logansport, La.; Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon Coast drainage southward from and including Umpqua River; the Klamath River and tributaries above the California-Oregon State line; the Great Basin in Oregon except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla....	Canadian River and tributaries east of the eastern boundary of New Mexico. Red River and tributaries at and above Denison Dam.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries and other coastal drainage between those basins.
Philadelphia, Pa.....	Delaware River and tributaries, except Pennsylvania tributaries southward to and including the Lehigh River and the Schuylkill River above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.).
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River, Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Rochester, N. Y.....	Genesee River and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Marais des Cygnes (Osage) River and tributaries in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah...	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, San Antonio and Lavaca Rivers and tributaries.
San Francisco, Calif...	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries below Denison Dam to and including Alexandria, La.; the upper Sabine River and tributaries at and above Logansport, La.
Sioux City, Iowa.....	Missouri River and tributaries from the North Dakota-South Dakota State line to and including Sioux City, Iowa, except the James River Basin in North Dakota.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.
Trenton, N. J.....	The Atlantic drainage area between the Hudson and the Delaware River Basins.
Tulsa, Okla.....	Arkansas River and tributaries below the Kansas-Oklahoma State line to and including Van Buren, Ark., except the Canadian River and the Verdigris and Neosho Rivers in Kansas.

## INTRODUCTION

4

### ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Vicksburg, Miss..... Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.  
Washington, D. C..... Potomac and Rappahannock Rivers and tributaries.  
Wichita, Kans..... Arkansas River and tributaries above the Kansas-Oklahoma State line to, but not including Great Bend, Kans., the Verdigris and Neosho Rivers and tributaries above the Kansas-Oklahoma State line.

#### River Forecast Centers

Augusta, Ga..... Southeast River Forecast Center: South Atlantic Coastal Basins south of the James Basin to and including the St. Marys River Basin. East Gulf of Mexico drainage from and including Mobile Bay eastward to and including the Suwanee River Basin.  
River Districts Served: Atlanta, Ga.; Augusta, Ga.; Charleston, S. C.; Columbia, S. C.; Macon, Ga.; Mobile, Ala.; Montgomery, Ala.; Pensacola, Fla.; Raleigh, N. C.

Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (McMechen, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky., Sandusky River and tributaries.  
River Districts Served: Cincinnati, Ohio; Columbus, Ohio; Evansville, Ind.; Huntington, W. Va.; Indianapolis, Ind.; Louisville, Ky.; Nashville, Tenn.; and Parkersburg, W. Va.

Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and tributaries.  
River Districts Served: Allentown, Pa.; Binghamton, N. Y.; Harrisburg, Pa.; Philadelphia, Pa.; Reading, Pa.

Hartford, Conn..... Northeast River Forecast Center: Rivers in New England, Lake Champlain drainage and the Hudson River and tributaries in New York.  
River Districts Served: Albany, N. Y.; Burlington, Vt.; Concord, N. H.; Hartford, Conn.; Portland, Me.

Kansas City, Mo..... Missouri River Forecast Center: Missouri River and tributaries from the headwaters to and including Jefferson City, Mo.; the Marais des Cygnes (Osage) River and tributaries in Kansas.  
River Districts Served: Billings, Mont.; Bismarck, N. Dak.; Denver, Colo.; Helena, Mont.; Kansas City, Mo.; Norfolk, Nebr.; Omaha, Nebr.; Sioux City, Iowa; Topeka, Kans.

Knoxville, Tenn..... Tennessee Valley River Forecast Unit: Tennessee River and tributaries.  
River Districts Served: Asheville, N. C.; Knoxville, Tenn.

Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to Point Delgada in Calif.; Great Basin in Oregon.  
River Districts Served: Boise, Idaho; Medford, Oreg.; Portland, Oreg.; Seattle, Wash.; Spokane, Wash.; Eureka, Calif.

St. Louis, Mo..... Upper Mississippi River Forecast Center: Mississippi River and tributaries from headwaters to and including New Madrid, Mo.; the Missouri River and tributaries below Jefferson City, Mo. (except the Marais des Cygnes (Osage) River and tributaries in Kansas); the Ohio River and tributaries below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River); the Red River of the North and tributaries to Canadian line.  
River Districts Served: Burlington, Iowa; Cairo, Ill.; Des Moines, Iowa; Fargo, N. Dak.; Minneapolis, Minn.; Moline, Ill.; St. Louis, Mo.

Tulsa, Okla..... Arkansas River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado line, except the Canadian River in New Mexico, Red River and tributaries to and including Alexandria, La.  
River Districts Served: Dodge City, Kans.; Little Rock, Ark.; Oklahoma City, Okla.; Tulsa, Okla.; Wichita, Kans.; Shreveport, La.

Washington, D. C..... Middle Atlantic River Forecast Unit: Potomac, Rappahannock, James and York Rivers and tributaries.  
River Districts Served: Richmond, Va.; Washington, D. C.



## RIVER STATIONS AND MISCELLANEOUS INFORMATION

[River stations, arranged by drainage areas, and miscellaneous information pertaining thereto]

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM--Continued										
		Years	Feet	Miles	Sq. Miles	Feet	Feet		Feet	
Ohio Basin										
Vandergrift, Pa.	Kiskiminetas	23	769.40	11.8	1,825	25	25.70	Mar. 31, 1940	1.92	Oct. 16, 1952
Olean, N. Y.	Allegheny	35	1,401.12	259.0	1,137	10	17.5	Mar. 8, 1956		
Franklin, Pa.	do.	18	1,168.80	191.7	3,134	14	18.3	Mar. 8, 1956	0.7	Sept. 26, 1941
Parker, Pa.	do.	53	855.92	126.4	5,982	17	26.0	Feb. 27, 1917	1.2	Oct. --, 1909
Lock No. 3, Acmetonia, Pa. (Lower gage)	do.	73	845.14	85.0	7,671	20	27.85	Mar. 5, 1934	0.1	Sept. 8, 1886
Elkins, W. Va.	do.	23	710.21	14.7	11,517	25	45.69	Mar. 18, 1936	11.1	July 17, 1936
Philippi, W. Va.	Fygart	9	1,901.65	86.0	266	17	18.8	Oct. 16, 1954	3.74	Oct. 20, 1953
Newton, W. Va.	do.	39	1,280.55	46.0	916	17	24.1	Oct. 16, 1954	1.08	Oct. 10-12, 1953
Confluence, Pa.	West Fork	55	993.84	69.0	133	17	25.5	June 23, 1950	0.79	Aug. 9, 1952
Connellsville, Pa.	Youghiogheny	85	1,302.77	67.0	1,028	12	N21.6	Mar. 17, 1936	0.31	Oct. 14, 1943
Sutersville, Pa.	do.	50	860.13	45.0	1,326	16	21.96	Oct. 16, 1954	0.1	Sept. 23, 1908
Lock No. 15, Moulit, W. Va. (Lower gage)	do.	42	733.36	13.5	1,715	20	32.5	Oct. 16, 1954	1.98	July 10, 1918
Lock No. 7, Greensboro, Pa. (Lower gage)	Monongahela	54	838.91	124.2	2,388	28	29.4	Jan. 2, 1919	0.7	Dec. 6, 1908
Lock No. 4, Charleroi, Pa. (Lower gage)	do.	70	753.00	84.8	4,407	37	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
McKeesport, Pa.	do.	72	716.17	41.5	5,213	28	43.53	July 11, 1888	4.73	Nov. 18, 1887
Beaver Falls, Pa.	do.	45	718.25	14.8	7,161	12	28.8	Mar. 18, 1936	0.8	Aug. 14, 1944
Newcomerstown, Ohio	Beaver	50	727.48	5.5	3,106	15	17.4	Mar. 27, 1913	1.7	Aug. 20-25, 1951
Zanesville, Ohio	Tuscarawas	30	780.00	21.1	2,436		P21.25	Aug. 9, 1935	1.52	Sept. 15, 1954
McConnellsville, Ohio	Munkingus	67	665.00	76.8	6,844	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Glenville, W. Va.	do.	45	650.31	49.6	7,411	11	33.5	Mar. 27, 1913	-0.65	Aug. 25, 1930
Creston, W. Va.	Little Kanawha	57	697.79	103.0	386	23	33.6	Nov. 18, 1928	-0.9	Nov. 10, 1908
Athens, Ohio	do.	57	621.71	48.1	1,235	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Camden on Gauley, W. Va.	Rocking	42	615.59	31.6	844	17	23.0	Mar. 7, 1945	2.0	Aug. 13, 1941
Galax, Va.	Gauley	42	2,003.28	71.0	236	23	19.42	July 16, 1954	0.84	Oct. 28-27, 1953
Radford, Va.	New	16	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	0.6	July 9, 1930
Glenlyn, Va.	do.	82	1,712.36	145.0	2,748	14	35.96	Aug. 14, 1940	1.08	Aug. 25-27, 1944
Hinton, W. Va.	do.	32	1,489.76	95.0	3,768	15	27.5	Aug. 14, 1940	1.36	Sept. 29, 1955
Clay, W. Va.	do.	71	1,356.44	63.4	6,257	14	20.2	Sept. 13, 1878	0.23	Sept. 25-26, 1953
	Elk	43	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	M-0.06	Oct. 16-Nov. 8, 1953
Kanawha Falls, W. Va.	Kanawha	44	623.20	95.0	8,367	25	29.6	Aug. 15, 1940	-0.95	Aug. 15, 1930
London Dam, London, W. Va.	do.	24	581.00	82.8	5,522	43	40.9	Aug. 15, 1940		
Charleston, W. Va.	do.	85	548.00	54.4	10,419		48.9	Mar. 5, 1899	17.46	Oct. 16, 1950
Logan, W. Va.	Guyandot	36	639.08	81.4	859	20	N28.23	Jan. 30, 1957	0.0	Oct. 10, 1923
Kermit, W. Va.	Tug Fork	27	574.77	35.5	1,268	38	45.95	Jan. 30, 1957	1.4	Oct. 4, 1920
Pikeville, Ky.	Lewis Fork	50	633.18	88.5	1,237	36	52.72	Jan. 30, 1957	0.1	Oct. 5, 1951
Pointsville, Ky.	do.	30	566.84	38.5	2,143	40	45.98	Jan. 31, 1957	1.1	July 23, 1930
Louisa, Ky.	Big Sandy	69	512.81	26.6	13,870	45	52.61	Mar. 2, 1955	0.7	Nov. 18, 1884
Delaware, Ohio	Oleantangy	48	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921
La Rue, Ohio	Scioto	42	910.19	186.2	255	11	15.0	Mar. 20, 1927	1.8	June 5, 1941
Prospect, Ohio	do.	51	891.93	175.2	554	10	17.0	Mar. 22, 1927	0.2	Oct. 2, 1910
Columbus, Ohio	do.	60	700.03	131.9	1,613	22	P22.9	Mar. 25, 1913	-0.8	July 27, 1923
Cincinnati, Ohio	do.	48	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.12	Sept. 22, 1957
Chillicothe, Ohio	do.	50	594.02	70.4	3,847	16	39.8	Mar. 26, 1913	0.85	Sept. 27, 1944
Pikeston, Ohio	do.	15	531.39	35.0	5,824	16	28.8	Mar. 7, 1945	0.00	Nov. 10-15, 1955
Kings Mills, Ohio	Little Miami	45	587.10	31.2	1,048	26	27.77	Apr. 20, 1940	0.5	July 3, 1914
Cynthiana, Ky.	South Fork Licking	41	688.52	46.0	615	20	23.3	Apr. 13, 1946	0.5	June 15, 1936
Farmers, Ky.	Licking	42	646.55	172.0	826	25	31.1	Feb. 9, 1918	1.0	July 13-14, 1945
Alamouth, Ky.	do.	71	511.16	51.2	2,320	28	41.6	Apr. 14, 1946	-0.1	Oct. 14-27, 1930
Pleasant Hill, Ohio	Stillwater	42	646.55	29.2	502	13	17.5	Jan. 14, 1937	0.6	July 26, 1941
Springfield, Ohio	do.	43	881.42	23.6	485	11	15.1	Feb. 26, 1929	1.2	Dec. 4, 1944
Brookville, Ind.	Whitewater	40	585.71	27.0	1,239	20	25.56	Feb. 26, 1929	0.1	Sept. 25-Oct. 2, 1941
Sidney, Ohio	Miami	44	924.65	134.8	545	12	14.4	Mar. 20, 1927	-0.2	Sept. 23, 1940
Piqua, Ohio	do.	47	844.00	122.1	842	17	29.1	Mar. 25, 1913	0.7	Sept. 17, 1941
Tipp City, Ohio	do.	35	786.77	104.5	1,016	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941
Dayton, Ohio	do.	65	721.00	83.0	2,513	21	31.7	Mar. 25-26, 1913	-0.1	Sept. 28, 1941
Miaminsburg, Ohio	do.	35	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	0.0	Oct. 17, 1929
Franklin, Ohio	do.	35	658.41	61.3	2,780	16	16.7	Jan. 22, 1937	0.0	Oct. 3, 1954
Middletown, Ohio	do.	35	626.00	53.6	3,162	14	17.5	Feb. 27, 1929		
Hamilton, Ohio	do.	48	560.00	35.3	3,639	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 26, 1932
Hazard, Ky.	North Fork Kentucky	33	839.76	106.2	466	20	37.54	Jan. 28, 1957		
Jackson, Ky.	do.	33	897.67	49.8	1,101	29	43.1	Feb. 4, 1939	0.0	Sept. 11-19, 1954
Lock No. 14, Heidelberg, Ky.	Kentucky	42	625.8	249.0	2,657	30	35.6	Feb. 4, 1939	2.9	Nov. 22, 1953
Lock No. 10, Ford, Ky.	do.	55	556.7	176.4	1,355	25	35.1	Mar. 29, 1913	8.2	Oct. 25-28, 1953
Lock No. 7, Highbridge, Ky.	do.	57	503.9	117.0	15,036	30	42.2	Jan. 23, 1937	4.7	Nov. 24-26, 1912
Lock No. 4, Frankfort, Ky.	do.	69	462.1	65.0	5,412	31	47.46	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	34	409.83	37.6	1,680	28	44.63	Mar. 24, 1952	P0.0	Oct. 18, 1923
Dundee, Ky.	Rough	34	393.18	62.5	752	25	29.0	Jan. 14, 1950		
Munfordville, Ky.	Green	33	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do.	51	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	59	373.80	149.5	5,446	33	59.0	Jan. 24, 1937	5.0	Sept. 17, 1902
Lock No. 2, Calhoun, Ky. (Upper gage)	do.	49	354.4	62.8	7,681	23	43.62	Jan. 31, 1937	P3.7	July 28, 1902
Danville, Ill.	Vermillion	53	503.33	19.7	1,280	18	28.99	Mar. 13, 1939		
Crawfordsville, Ind.	Sugar Creek	18	657.78	39.2	509	8	14.02	May 18, 1943	0.94	Sept. 24-27, 1941
Ste. Marie, Ill.	Embarrass	48	446.75	47.2	1,540	18	T24.95	Jan. 4, 1950	0.06	Sept. 18, 19 1954
Bowling Green, Ind.	Eel	27	548.02	38.8	844	17	23.53	Jan. 4, 1950	0.34	Oct. 4-5, 1954
Columbus, Ind.	East Fork White	10	603.12	192.0	1,692	10	15.12	Jan. 28, 1952	0.78	Oct. 7, 1954
Seymour, Ind.	do.	35	550.67	167.6	2,333	14	19.74	Jan. 5, 1949	20.0	Sept. 14-Oct. 14, 1954
Bedford, Ind.	do.	19	469.20	93.0	4,060	20	32.7	Jan. 8, 1950		
Williams, Ind.	do.	37	472.56	78.2	4,690	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do.	50	442.25	56.1	4,954	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Muncie, Ind.	White	34	920.10	304.8	242	--	18.07	Jan. 15, 1927	0.47	Sept. 13-Oct. 3, 1954
Anderson, Ind.	do.	47	825.02	285.7	401	10	23.6	Mar. 25, 1913		
Noblesville, Ind.	do.	44	738.18	262.0	837	14	20.1	May 19, 1943	3.0	Aug. 29, 1914
Indianapolis, Ind. (Morris Street)	do.	47	662.26	235.8	1,627	16	21.57	Jan. 16, 1937	1.63	Sept. 27-30, 1956
Spencer, Ind.	do.	32	526.04	165.9	2,980	14	23.2	Jan. 16, 1937	0.88	Sept. 25, 30, A
Elliston, Ind.	do.	50	472.94	129.8	4,470	18	31.3	Mar. 27, 1913	5.18	Oct. 8, 1954
Edwardsport, Ind.	do.	35	433.20	84.2	5,000	12	26.25	Jan. 8, 1950	1.7	Jan. 2, 1945
Petersburg, Ind.	do.	23	400.00	47.8	11,139	16	28.38	Jan. 22, 1937	0.0	Aug. 26, 1936
Hazleton, Ind.	do.	33	383							

# MISSISSIPPI SYSTEM-OHIO BASIN

WARASH RIVER AT COVINGTON, IND.  
GAGE ZERO: 479.07 FEET; M.S.L. FLOOD STAGE: 16 FEET.

	Day of month																															Highest or crest	Date	Lowest	Date	
1957	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
JAN	3.5	3.5	3.5	3.6	3.7	3.9	3.9	4.0	4.0	3.7	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	9.3	11.7	12.2	12.5	10.9	9.1	7.8	6.8	6.1	12.5	26	3.5	14
FEB	5.5	5.5	5.2	4.9	4.8	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
MAR	12.5	13.5	12.5	10.5	8.5	7.5	6.5	6.0	5.5	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
APR	6.5	6.5	6.5	11.0	16.5	18.5	20.1	22.1	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	
MAY	17.5	18.2	17.5	10.5	9.2	8.5	8.0	7.5	7.1	7.1	11.5	12.7	14.1	15.5	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	
JUN	11.2	8.8	8.1	7.9	7.5	7.9	6.7	6.5	6.3	6.1	6.2	6.7	6.8	8.3	12.6	13.8	13.5	12.7	11.5	10.7	9.7	8.5	7.7	6.2	6.3	5.8	5.6	8.0	15.6	17.8	16.7	16.7	16.7	16.7	16.7	
JUL	10.5	20.5	21.5	20.5	10.2	17.4	17.5	17.5	18.5	18.5	16.0	14.4	11.0	10.9	11.5	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
AUG	6.2	5.0	5.0	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.2	
SEP	4.1	3.9	4.0	4.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	
OCT	4.4	4.2	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
NOV	4.1	5.5	5.5	5.5	5.2	5.1	4.9	4.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
DEC	5.7	5.6	5.6	5.6	5.6	5.5	6.3	6.7	14.6	16.6	17.4	16.1	11.8	9.4	8.6	8.0	7.6	8.5	13.3	18.4	21.0	23.0	23.5	23.0	21.6	19.6	18.2	18.6	19.1	18.6	16.7	23.6	23	5.5	6	

WARASH RIVER AT TROPE HAUTE, IND.  
GAGE ZERO: 445.78 FEET; M.S.L. FLOOD STAGE: 14 FEET.

1957	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Highest	Date	Low	Date	
JAN	1.6	1.4	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.4	1.4	1.1	1.1	1.1	0.9	0.3	0.3	0.3	0.5	0.6	0.7	1.3	7.3	7.1	7.9	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	
FEB	3.3	3.0	2.8	2.6	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
MAR	7.0	9.0	10.4	9.5	7.8	6.4	5.0	4.3	3.8	3.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
APR	9.0	8.1	8.2	19.2	14.5	14.0	11.0	9.0	7.6	6.7	6.1	5.1	4.1	3.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
MAY	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	
JUN	9.6	10.8	9.1	7.7	6.8	6.1	5.9	5.5	5.0	4.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
JUL	21.5	20.5	19.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	
AUG	8.6	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
SEP	1.0	1.8	1.6	1.5	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
OCT	1.8	1.7	1.5	1.4	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
NOV	3.0	3.5	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
DEC	3.3	3.9	3.1	2.9	2.0	2.0	3.0	6.8	9.5	11.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6

WARASH RIVER AT DIVERTON, IND.  
GAGE ZERO: 414.85 FEET; M.S.L. FLOOD STAGE: 18 FEET.

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Highest or crest	Date	Lowest	Date
JAN	2.5	2.4	2.1	1.8	1.5	1.0	1.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
FEB	5.2	4.6	4.1	3.9	3.8	3.8	3.7	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
MAR	9.0	9.0	11.3	11.4	10.4	8.8	7.4	6.1	5.6	5.0	4.7	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
APR	4.3	8.7	8.2	19.2	14.5	14.0	11.0	9.0	7.6	6.7	6.1	5.1	4.1	3.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MAY	17.6	17.5	17.4	17.4	17.3	16.9	15.7	12.1	10.3	9.1	8.4	7.9	6.2	12.8	13.9	14.5	14.6	15.1	14.8	14.4	15.2	15.6	16.7	17.2	17.5	17.5	17.4	17.2	16.6	15.5	13.3	11.1	17.6	1	7.9
JUN	10.1	11.9	12.4	10.9	9.5	8.7	8.6	7.0	7.4	7.1	6.6	7.9	14.5	14.6	14.3	15.2	15.3	15.3	16.0	14.7	14.2	12.5	10.6	9.2	8.1	7.3	6.8	8.9	16.8	18.8	16.8	16.8	16.8	16.8	16.8
JUL	20.9	21.9	21.9	21.2	20.5	10.0	10.4	10.1	18.6	18.0	17.5	17.1	16.5	15.2	15.0	15.7	16.2	16.1	15.2	14.7	14.5	13.0	11.2	10.0	12.0	13.4	13.5	11.5	9.7	9.9	8.2	8.2	8.2	8.2	8.2
AUG	7.2	6.7	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
SEP	3.6	3.4	3.3	3.1	3.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
OCT	3.0	3.1	3.0	3.0	3.0	2.7	2.6	2.5	2.5	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.4	2.6	2.9	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
NOV	5.8	5.2	4.7	4.4	4.1	3.0	3.7	3.7	3.6	3.7	4.0	4.2	4.4	5.0	6.7	8.1	9.9	11.0	12.3	11.9	10.7	9.3	8.2	7.3	6.8	6.3	5.9	5.5	5.2	5.0	12.3	19	3.6	9	
DEC	4.8	4.6	4.5	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

WARASH RIVER AT VINCENT, IND.  
GAGE ZERO: 390.45 FEET; M.S.L. FLOOD STAGE: 16 FEET.

year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High	Low	
JAN	3.3	3.2	F 4.1	F 4.5	F 4.2	F 4.3	F 4.4	F 4.2	2.9	2.9	3.1	3.0	F 3.1	A 2.2	A 2.2	A 2.8	B 2.8	G 2.8	F 2.8	2.6	5.3	8.2	8.5	8.5	F 6.8	F 6.8	F 6.8	F 6.8	F 6.1	FG 8.4	28	4.1		
FEB	5.4	5.1	4.5	4.3	4.2	4.3	4.4	4.2	4.1	3.5	3.9	3.8	3.8	3.4	3.2	3.6	3.9	5.2	4.8	4.7	4.5	4.3	4.2	4.1	5.1	7.8	7.8	7.8	7.8	7.8	7.8	7.8		
MAR	8.2	8.8	9.5	9.9	9.8	9.8	7.4	4.4	5.7	5.7	4.0	4.8	4.7	4.5	4.4	4.5	4.4	4.5	4.4	4.3	4.2	4.2	4.2	4.2	5.5	6.9	6.2	5.3	4.9	4.7	9.9	4		
APR	4.6	4.8	9.2	12.5	15.4	15.4	17.2	17.8	18.7	18.7	18.7	18.9	19.3	19.9	20.4	20.6	20.5	20.3	19.4	19.2	18.1	17.2	16.7	16.4	16.4	16.6	17.1	17.3	Y 17.5	17.3	X 20.7	16	4.2	
MAY	14.9	16.6	16.3	16.0	15.7	15.2	13.7	10.7	9.2	8.3	7.8	7.4	9.6	11.2	11.0	12.3	12.6	12.7	12.8	13.2	13.8	14.5	16.0	17.1	17.5	17.7	17.5	17.0	16.3	15.0	19.0	Z 17.7	25+	7.4
JUN	10.9	10.6	11.6	10.4	9.4	7.4	7.0	7.7	7.3	4.0	4.5	*	3.1	13.3	13.3	13.6	13.9	14.1	14.2	14.4	14.0	12.6	11.0	8.9	7.3	6.6	6.3	11.1	14.7	14.7	30	6.3		
JUL	14.0	20.3	22.0	23.7	23.4	22.8	21.8	20.4	18.8	18.5	17.3	16.3	15.5	14.8	13.7	14.0	14.3	14.4	14.2	13.3	12.6	12.1	11.0	9.4	9.7	10.8	11.4	10.9	9.4	8.7	8.3	A 23.7	4	8.3
AUG	7.0	6.8	6.7	5.7	4.8	4.0	3.4	2.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
SEP	3.7	3.6	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	
OCT	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NOV	5.8	5.7	4.8	4.5	4.3	4.1	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	
DEC	5.0	4.8	4.6	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	



## INDEX BY STATIONS

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Minneapolis, Kans.	Solomon.	7	--	Raygold, Oreg.	Rogue.	11	--
Minneapolis, Minn.	Mississippi.	7	69	Reading, Pa.	Schuylkill.	11	30
Mobridge, S. Dak.	Missouri.	7	61	Red Bluff, Cal.	Sacramento.	11	181
Moline, Ill.	Rock.	7	64	Red River Landing, La.	Mississippi.	10	145
Moncure, N. C.	Cape Fear.	6	42	Red Wing, Minn.	do.	7	70
Monroe, La.	Ouachita.	10	137	Renovo, Pa.	Susquehanna--West Branch.	5	34
Montague City, Mass.	Connecticut.	5	--	Rensselaer, Ga.	Oostanaula.	6	54
Montezuma, Ga.	Plant.	6	52	Reserve, La.	Mississippi.	10	145
Montezuma, Ind.	Wabash.	6	57	Reynolds, Idaho.	Henry Fork.	10	163
Montgomery, Ala.	Arkansas.	6	57	Richmond, Tex.	Brason.	10	152
Monticello, Miss.	Pearl.	6	52	Richmond, Tex.	James.	5	39
Montpelier, Ohio.	St. Joseph.	5	24	Rimint, S. C.	Santee.	6	--
Montpelier, Vt.	Winoski.	5	26	Rio Grande City, Tex.	Rio Grande.	11	157
Moorhead, Minn.	Red of the North.	5	22	Rio Vista, Calif.	Sacramento.	11	--
Morgan City, La.	Atchafalaya.	10	147	River Falls, Ala.	Trinity.	10	34
Morrilton, Ark.	Arkansas.	10	134	Riverside, Tex.	Trinity.	10	151
Morris, Ill.	Illinois.	7	67	Riverton, Ind.	Wabash.	8	105
Mount Carmel, Ill.	Wabash.	8	106	Riverton, Wyo.	Shenandoah.	5	37
Mount Morris, N.Y. (Jones Br.)	Genesee.	5	--	Rochester, N. Y.	Genesee.	5	26
Mount Vernon, Ga.	Oconee.	6	49	Rock Hill, S. C.	Catawba.	6	46
Mount Vernon, Ind.	Ohio.	9	122	Rockledge, N. Y.	Unadilla.	5	32
Mount Vernon, Wash.	Skagit.	12	171	Rockland, Tex.	Neches.	10	148
Mulberry, Ark.	Big Mulberry.	10	--	Rockwall, Tex.	Trinity--East Fork.	10	150
Muncie, Ind.	White.	8	--	Rocky Mount, N. C.	Tar.	6	41
Murfreesboro, Ky.	Green.	8	100	Rome, Ga.	Oostanaula.	6	54
Muscatoine, Iowa.	Mississippi.	7	72	Roseburg, Oreg.	South Umpqua.	11	--
Naples, Tex.	Sulphur.	10	139	Ross, Tex.	Sacramento.	11	182
Nashville, Tenn.	Cumberland.	9	107	Saginaw, Mich.	Saginaw.	5	24
Natchez, Miss.	Mississippi.	10	144	St. Charles, Ark.	White.	9	128
Nebraska City, Nebr.	Missouri.	7	83	St. Charles, Mo.	Missouri.	7	84
Neeley, Idaho.	Snake.	11	164	St. Francis, Ark.	St. Francis.	10	141
Neillville, Wis.	Black.	7	63	St. Helena, Cal.	Columbia.	10	170
Neuse, N. C.	Neuse.	6	41	St. John, Calif.	Stony Creek.	11	--
New Braunfels, Tex.	Guadalupe.	11	--	St. Joseph, Mo.	Missouri.	7	83
Newburgh, Ind.	Ohio.	9	--	St. Louis, Mo.	Mississippi.	7	73
Newcomerstown, Ohio.	Tuscarawas.	8	89	Ste. Marie, Ill.	Embarass.	8	--
New Harmony, Ind.	Wabash.	9	106	St. Paul, Minn.	Mississippi.	7	69
New Madrid, Mo.	Mississippi.	10	143	St. Regis, Mont.	Clark Fork.	11	--
New Orleans, La.	do.	10	146	St. Thomas, Mo.	Osage.	7	80
Newport, Ark.	White.	9	126	Salina, Oreg.	Willamette.	12	168
Newport, Pa.	Juniata.	5	35	Salida, Colo.	Arkansas.	10	--
New Richmond, Ohio.	Ohio.	9	118	Salina, Kans.	Smoky Hill.	7	76
Newton, Ala.	Choctawhatchee.	6	53	Salmon, Idaho.	Salmon.	11	163
Nicolaus, Calif.	Feather.	11	161	Santa Rosa, N. Mex.	Pecos.	11	155
Nobleville, Ind.	White.	8	102	Sara, Wis.	Colorado.	10	142
Norcross, Ga.	Chattahoochee.	6	51	Savannah, Tenn.	Tennessee.	9	112
Norfolk, Nebr.	Elkhorn.	7	--	Scandia, Kans.	Republican.	7	--
Norris Dam, Tenn. (Headwater).	Clinch.	9	109	Schenectady, N. Y.	Mohawk.	5	29
North Platte, Nebr.	North Platte.	7	75	Scio, N. Y.	Genesee.	5	--
do.	South Platte.	7	75	Selma, Ala.	Alabama.	6	57
North Stratford, N. H.	Connecticut.	5	--	Sevier, Tenn.	White--East Fork.	5	101
Oklahoma City, Okla.	North Canadian.	9	131	Sherburne, N. Y.	Chenango.	5	32
Old Town Bay, La.	Calcasieu.	10	--	Shoals, Ind.	White--East Fork.	8	101
Olean, N. Y.	Allegheny.	8	85	Shreveport, La.	Red.	10	140
Omaha, Nebr.	Missouri.	7	82	Shubuta, Miss.	Chickasawhay.	6	60
Orange, Tex.	Sabine.	10	149	Sidney, Ohio.	Miami.	8	97
Orangeburg, S. C.	Edisto--North Fork.	6	--	Siemsport, La.	Atchafalaya.	10	147
Oregon City, Oreg.	Willamette.	12	168	Sioux City, Iowa.	Missouri.	7	82
Oscola, Mo.	Osage.	8	80	Smithfield, N. C.	Neuse.	6	42
Oswego, Kans.	Neosho.	9	--	Smithville, Tex.	Colorado.	10	153
Owatoma, Kans.	Marais des Cygnes.	7	--	Snohomish, Wash.	Snohomish.	12	171
Ottawa, Kans.	do.	7	79	South Newbury, Vt.	Connecticut.	5	--
Ottumwa, Iowa.	Des Moines.	7	66	Spalding, Idaho.	Clearwater.	11	184
Owensboro, Ky.	Ohio.	9	121	Spencer, Ind.	White.	8	102
Ozark, Ark.	Ohio.	10	134	Spokane, Wash.	Spokane.	11	163
Paducah, Ky.	Ohio.	9	123	Sprackels, Calif.	Salinas.	11	--
Pagosa Springs, Colo.	San Juan.	11	158	Spring Bank, Ark.	Red.	10	--
Paintsville, Ky.	Levisa Fork.	8	93	Springfield, Mass.	Connecticut.	5	29
Parkersburg, W. Va.	Ohio.	9	114	Springfield, Mo.	Madison.	10	41
Parker, Pa.	Allegheny.	8	88	Springfield, W. Va.	Potomac--South Branch.	5	--
Parkia, Ark.	St. Francis.	10	141	Sullivan, Mo.	Meramec.	7	68
Patterson, Ark.	Catche.	9	--	Sunbury, Pa.	Susquehanna.	5	36
Paula Valley, Okla.	Washita.	10	138	Sutersville, Pa.	Youghiogheny.	8	87
Pearl River, La.	Pearl.	6	62	Swan Lake, Miss.	Tallahatchie.	10	142
Peedee, S. C.	Pee Dee.	6	44	Tarboro, N. C.	Cape Fear.	8	43
Peizer, S. C.	Saluda.	6	46	Terre Haute, Ind.	Wabash.	8	105
Penacook, N. H.	Contoquog.	5	27	The Dalles, Oreg.	Columbia.	12	170
Pennington, Ala.	Tombigbee.	6	59	Tiffin, Ohio.	Sandusky.	5	25
Peoria, Ill.	Illinois.	7	67	Tipp City, Ohio.	Miami.	8	--
Perkins, Okla.	Cigararon.	9	129	Topsail, N. C.	Kansas.	7	78
Perryville, Tenn.	Tennessee.	9	112	Towanda, Pa.	Susquehanna.	5	36
Peru, Ind.	White.	10	104	Tracy, Iowa.	Des Moines.	7	66
Petersburg, Ind.	White.	8	103	Trenton, Mo.	Thompson Fork.	7	78
Philadelphia, Pa.	Schuylkill.	5	31	Trenton, N. J.	Delaware.	5	31
Philippi, W. Va.	Tygart.	8	86	Tribes Hill, N. Y.	Mohawk.	5	29
Pierre, S. Dak.	Missouri.	7	82	Tulsa, Okla.	Trinity.	10	150
Pikeston, Ohio.	Scioto.	8	95	Tuscaloosa Lock and Dam, Ala.	Black Warrior.	6	58
Pikeville, Ky.	Levisa Fork.	8	93	Unadilla, Oreg.	Columbia.	12	170
Pine Bluff, Ark.	Arkansas.	10	135	Unadilla, N. Y.	Susquehanna.	5	35
Piqua, Ohio.	Miami.	8	97	Union, Mo.	Bourbeuse.	7	68
Pittsburgh, Pa.	Ohio.	9	113	Uniontown, Ky.	Ohio.	8	122
Pleasant Hill, Ohio.	Stillwater.	8	96	Upper Sandusky, Ohio.	Sandusky.	5	25
Plymouth, N. H.	Pemigewasset.	5	27	Valley Junction, Tex.	Brason.	10	152
Point Pleasant, W. Va.	Ohio.	9	115	Valley Park, Mo.	Meramec.	7	69
Pompton Lakes, N. J.	Ramapo.	5	--	Van Buren, Ark.	Arkansas.	10	133
Pompton Plains, N. J.	Pompton.	5	--	Vanceburg, Ky.	Ohio.	9	--
Poplar Bluff, Mo.	Black.	9	125	Vancouver, Wash.	Columbia.	12	170
Portage, Wis.	Wisconsin.	7	64	Vandergrift, Pa.	Kiskiminetus.	8	85
Port Jervis, N. Y.	Delaware.	5	31	Van Meter, Iowa.	Raccoon.	7	65
Portland, Mich.	Grand.	5	--	Vestal, N. Y.	Susquehanna.	5	36
Portland, Oreg.	Willamette.	12	169	Vicksburg, Miss.	Mississippi.	10	144
Portsmouth, Ohio.	Ohio.	9	117	Victoria, Tex.	Guadalupe.	11	134
Priest River, Idaho.	Priest.	11	--	Vincennes, Ind.	Wabash.	8	105
Prospect, Ohio.	Scioto.	8	94	Waco, Tex.	Wabash.	10	104
Prospect, Tenn.	Elk.	9	109	Wahpeton, N. Dak.	Brason.	10	152
Pueblo, Colo.	Arkansas.	10	--	Wakefield, Kans.	Red of the North.	5	22
Queneau, Kans.	Marais des Cygnes.	7	--	Wamego, Kans.	Republican.	7	--
Quincy, Ill.	Mississippi.	7	73	Wanake, N. J.	Kansas.	7	78
Radford, Va.	New.	8	81	Wapello, Iowa.	Wanake.	5	--
Rainbow, Tex.	Brason.	10	151	Warren, Pa.	Iowa.	7	83
Ralston, Okla.	Arkansas.	10	133	Warsaw, Mo.	Allegheny.	8	85
Randle, Wash.	Cowlitz.	12	169		Osage.	7	80
Randolph, Va.	Roanoke.	6	39				
Rapidan, Va.	Rapidan.	5	--				
Ravenswood, W. Va.	Ohio.	9	115				

U. S. DEPARTMENT OF COMMERCE  
Frederick H. Mueller, Secretary

WEATHER BUREAU  
F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

REFERENCE  
DO NOT CIRCULATE

VOLUME LIV  
1958

Community Affairs File



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# DAILY RIVER STAGES-1958

1

## INTRODUCTION

This volume, containing the daily river stages for 1958 is the fifty-fourth of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS

#### OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

#### DAILY RIVER STAGES

Volume XLV. 1949	Volume XLVIII. 1952	Volume LI. 1955
XLVI. 1950	XLIX. 1953	LII. 1956
XLVII. 1951	L. 1954	LIII. 1957

Volumes XLVI to LIV can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Important crest stages are noted below the table. Extreme stages for a month may or may not have occurred at the regular time for reading the gage.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of the Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division -- William E. Hiatt, Chief of Division.

The country is served by 90 River District Offices and 10 River Forecast Centers at which the administrative and forecasting work is carried on. The following table shows the location of each of these offices and its area of responsibility.

## RIVER DISTRICT OFFICES, RIVER FORECAST CENTERS, AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Delaware River tributaries in Pennsylvania southward to and including the Lehigh River Basin.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries, from and including Fort Peck Dam, to the North Dakota-South Dakota State Line except the Milk and Yellowstone; the James River Basin in North Dakota.
Boise, Idaho.....	Snake River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Boston, Mass.....	Charles and Neponset Rivers and other coastal streams of eastern Massachusetts south of the Merrimack River Basin to, but not including, the Taunton River Basin.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River and the Pecos River in Texas.
Buffalo, N. Y.....	Lake Erie and Lake Ontario drainage area from, but not including, the Genesee River Basin westward to the New York-Pennsylvania State line.
Burlington, Iowa.....	Mississippi River from below Muscatine, Iowa, to, but not including, Dam No. 24 and tributaries, except: the Iowa River above Wapello, Iowa, the Skunk River above Augusta, Iowa, and the Des Moines River above Keosauqua, Iowa.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam 50 at Fords Ferry, Ky., except the Tennessee River at and above Kentucky Dam, and the Cumberland River at and above Barkley Dam.
Charleston, S. C.....	Waccamaw, Black, Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa River and tributaries above Wapello, Iowa; Skunk River and tributaries above Augusta, Iowa; Des Moines River and tributaries above Keosauqua, Iowa.
Dodge City, Kans.....	Arkansas River and tributaries from the Colorado-Kansas State line, downstream to and including the mouth of Walnut Creek.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to but not including the mouth of the Pecos River.
Eureka, Calif.....	California Coast drainage from Point Delgada northward except the Klamath River and tributaries above the California-Oregon State line.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fort Worth, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo...	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames River and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River and tributaries at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries at and above Kentucky Dam, except French Broad River and tributaries above North Carolina-Tennessee State line.



## RIVER DISTRICT OFFICES, RIVER FORECAST CENTERS, AND THEIR DISTRICTS

Lake Charles, La.....	Sabine River and tributaries below Logansport, La.; Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of an including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon Coast drainage southward from and including Umpqua River; the Klamath River and tributaries above the California-Oregon State line; the Great Basin in Oregon except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries at and above Barkley Dam.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla....	Canadian River and tributaries east of the eastern boundary of New Mexico and above Whitefield, Okla., Red River and tributaries at and above Denison Dam.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries and other coastal drainage between those basins.
Philadelphia, Pa.....	Delaware River and tributaries, except Pennsylvania tributaries southward to and including the Lehigh River and the Schuylkill River above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.).
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River, Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Rochester, N. Y.....	Genesee River and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 to, but not including Cape Girardeau, Mo., (except the Osage River and tributaries in Kansas and the Missouri River at and above Jefferson City, Mo.).
Salt Lake City, Utah...	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, San Antonio and Lavaca Rivers and tributaries.
San Francisco, Calif...	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries below Denison Dam to and including Alexandria, La.; the upper Sabine River and tributaries at and above Logansport, La.
Sioux City, Iowa.....	Missouri River and tributaries from the North Dakota-South Dakota State line to and including Sioux City, Iowa, except the James River Basin in North Dakota.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.
Trenton, N. J.....	The Atlantic drainage area between the Hudson and the Delaware River Basins.
Tulsa, Okla.....	Arkansas River and tributaries below the Kansas-Oklahoma State line to and including Van Buren, Ark., except the Canadian River above Whitefield, Okla.

## INTRODUCTION

## RIVER DISTRICT OFFICES, RIVER FORECAST CENTERS, AND THEIR DISTRICTS

Vicksburg, Miss..... Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.  
 Washington, D. C..... Potomac and Rappahannock Rivers and tributaries.  
 Wichita, Kans..... Arkansas River and tributaries above the Kansas-Oklahoma State line to the mouth of Walnut Creek below Great Bend, Kans.

River Forecast Centers

Augusta, Ga..... Southeast River Forecast Center: South Atlantic Coastal Basins south of the James Basin to and including the St. Marys River Basin. East Gulf of Mexico drainage from and including Mobile Bay eastward to and including the Suwannee River Basin.  
 River Districts Served: Atlanta, Ga.; Augusta, Ga.; Charleston, S. C.; Columbia, S. C.; Macon, Ga.; Mobile, Ala.; Montgomery, Ala.; Pensacola, Fla.; Raleigh, N. C.

Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (McMechen, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky., Cumberland River and tributaries above Lock F at Eddyville, Ky., Sandusky River and tributaries.  
 River Districts Served: Cincinnati, Ohio; Columbus, Ohio; Evansville, Ind.; Huntington, W. Va.; Indianapolis, Ind.; Louisville, Ky.; Nashville, Tenn.; and Parkersburg, W. Va.

Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and tributaries.  
 River Districts Served: Allentown, Pa.; Binghamton, N. Y.; Harrisburg, Pa.; Philadelphia, Pa.; Reading, Pa.

Hartford, Conn..... Northeast River Forecast Center: Rivers in New England, Lake Champlain drainage and the Hudson River and tributaries in New York.  
 River Districts Served: Albany, N. Y.; Burlington, Vt.; Concord, N. H.; Hartford, Conn.; Portland, Me.

Kansas City, Mo..... Missouri River Forecast Center: Missouri River and tributaries from the headwaters to and including Jefferson City, Mo.; the Marais des Cygnes (Osage) River and tributaries in Kansas.  
 River Districts Served: Billings, Mont.; Bismarck, N. Dak.; Denver, Colo.; Helena, Mont.; Kansas City, Mo.; Norfolk, Nebr.; Omaha, Nebr.; Sioux City, Iowa; Topeka, Kans.

Knoxville, Tenn..... Tennessee Valley River Forecast Unit: Tennessee River and tributaries.  
 River Districts Served: Asheville, N. C.; Knoxville, Tenn.

Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to Point Delgada in Calif.; Great Basin in Oregon.  
 River Districts Served: Boise, Idaho; Medford, Oreg.; Portland, Oreg.; Seattle, Wash.; Spokane, Wash.; Eureka, Calif.

St. Louis, Mo..... Upper Mississippi River Forecast Center: Mississippi River and tributaries from headwaters to and including New Madrid, Mo.; the Missouri River and tributaries below Jefferson City, Mo. (except the Marais des Cygnes (Osage) River and tributaries in Kansas); the Ohio River and tributaries below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River); the Red River of the North and tributaries to Canadian line.  
 River Districts Served: Burlington, Iowa; Cairo, Ill.; Des Moines, Iowa; Fargo, N. Dak.; Minneapolis, Minn.; Moline, Ill.; St. Louis, Mo.

Tulsa, Okla..... Arkansas and Red River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado line, except the Canadian River in New Mexico, Red River and tributaries to and including Fulton, Ark.  
 River Districts Served: Dodge City, Kans.; Little Rock, Ark.; Oklahoma City, Okla.; Tulsa, Okla.; Wichita, Kans.; Shreveport, La.

Washington, D. C..... Middle Atlantic River Forecast Unit: Potomac, Rappahannock, James and York Rivers and tributaries.  
 River Districts Served: Richmond, Va.; Washington, D. C.



# RIVER STATIONS AND MISCELLANEOUS INFORMATION

9

[River stations, arranged by drainage areas, and miscellaneous information pertaining thereto]

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Extreme stages from gage readings <sup>5</sup>			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM--Continued							Feet		Feet	
Ohio Basin--Continued										
Covington, Ind.	Wabash	32	473.97	260.5	8,208	16	32.4	May 20, 1943	1.2	Oct. 5, 1928
Montezuma, Ind.	do.	31	457.75	229.4	11,100	14	32.83	May 20, 1943	1.43	Aug. 3, 10, 1934
Clinton, Ind.	do.	46	452.20	219.5	11,800	18	32.1	Mar. --, 1913	0.89	Oct. 15, 1946
Terre Haute, Ind.	do.	60	445.78	204.4	12,200	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Buteonville, Ill.	do.	19	420.0	183.7	12,800	20	28.40	Jan. 9, 10, 1950	3.1	Sept. 21, 1955
Riverton, Ind.	do.	20	414.65	151.4	13,100	18	29.36	May 21, 1943	0.2	Sept. 27--Oct. 1, 1941
Vincennes, Ind.	do.	42	394.43	117.2	13,700	16	29.33	May 22, 1943	1.2	June 22, 1934
Mount Carmel, Ill.	do.	75	371.46	83.8	28,600	17	31.0	Mar. 30, 1913	-0.2	Oct. 9-11, 1940
New Harmony, Ind.	do.	25	353.20	44.0	29,160	15	24.4	Jan. 30, 1937	-0.2	Sept. 30, 1941
Williamsburg, Ky.	Cumberland	51	891.52	592.7	1,607	21	34.2	Jan. 10, 1946	-0.5	Sept. 16, 1919
Carthage, Tenn.	do.	74	437.67	308.2	10,754	40	59.8	Dec. 30, 1926	-0.4	Nov. 16, 1902
Nashville, Tenn.	do.	85	368.11	192.7	12,878	40	56.2	Jan. 1, 1927	-0.1	Sept. 14, 1887
Clarksville, Tenn.	do.	58	330.95	127.0	14,504	46	65.7	Jan. 25, 1937	-1.0	Sept. 18, 1913
Lock P, Eddyville, Ky.	do.	41	289.61	43.8	17,500	50	76.9	Jan. 26, 1937	-0.7	Oct. 14-20, 1894
Mendota, Va.	No. Fork Holston	53	1,330.56	39.1	493	8	17.5	June 14, 1907	0.3	Oct. 13, 1933
Cherokee Dam (Headwater), Tenn.	Holston	53	980.00	52.3	3,428	95	104.4	May 11, 1944	0.77	Jan. 7, 1954
Embsville, Tenn.	Wolichucky	38	1,519.30	89.0	805	12	18.6	Aug. 13, 1940	0.5	Jan. 3, 1940
Asheville, N. C.	French Broad	58	1,850.28	147.3	945	8	23.1	July 16, 1916	0.16	Sept. 20-22, 1925
Hot Springs, N. C.	do.	25	1,302.27	108.6	1,565	13	23.6	Aug. 30, 1940	1.6	Sept. 6, 1947
Douglas Dam (Headwater), Tenn.	do.	16	920.00	32.3	4,541	82	81.8	July 25, 1949	P-36.3	Jan. 16, 1956
Bryson City, N. C.	Tuckasegee	61	1,718.54	12.6	655	9	16.0	Aug. 30, 1940	0.5	Oct. 26, 1952
Fontana Dam (Headwater), N. C.	Little Tennessee	14	1,530.00	61.0	1,571	180	178.9	July 23, 1949	P-58.0	Jan. 29, 1955
Morris Dam (Headwater), Tenn.	Clatch	23	930.00	79.8	2,912	90	101.1	Feb. 11, 1937	-20.65	Jan. 24, 1956
Prospect, Tenn.	Elk	25	563.29	41.5	1,784	21	39.0	Mar. 22, 1955	0.62	Sept. 15, 1954
Columbia, Tenn.	Duck	52	535.52	132.8	1,208	32	51.75	Feb. 14, 1948	1.20	Dec. 1, 1954
Knoxville, Tenn.	Tennessee	76	797.38	645.1	8,963	20	38.9	Feb. 26, 1875	-3.6	Sept. 11, 1925
Kingston, Tenn.	do.	24	700.00	568.1	12,470	51	45.4	Mar. 9, 1942	3.5	Oct. 8, 1935
Chickamauga Dam (Headwater), Tenn.	do.	19	600.00	471.0	20,790	85	85.37	May 20, 1950	73.3	Jan. 21, 1942
Chattanooga, Tenn.	do.	85	621.12	464.2	21,400	30	53.8	Mar. 1, 1875	0.0	Sept. 11-14, 1881
Guntersville, Ala.	do.	55	550.00	358.0	24,340	47	46.44	Mar. 2, 1944	-2.5	Sept. 8, 1930
Decatur, Ala.	do.	82	534.30	305.0	26,900	25	27.5	Apr. 7, 1886	-0.4	Sept. 7-13, 19, 1925
Florence, Ala.	do.	87	401.12	256.7	30,810	18	32.5	Mar. 18, 1897	-3.0	Oct. 8, 1925
Savannah, Tenn.	do.	53	300.00	189.9	33,140	80	92.7	Jan. 2, 1927	38.8	Sept. 8, 1925
Perryville, Tenn.	do.	22	300.00	134.9	34,550	78	74.3	Feb. 17, 1948	26.7	Nov. 17, 1931
Johnsontown, Tenn.	do.	13	300.00	100.5	36,520	77	70.4	Mar. 24, 1897	18.9	Sept. 11, 1925
Kentucky Dam (Headwater), Ky.	do.	13	300.00	22.4	40,200	75	68.81	Jan. 24, 1950	49.2	Jan. 22, 1947
Gilbertsville, Ky.	do.	23	286.35	21.8	40,200	34	62.4	Feb. 2, 1937	10.6	Jan. 13, 1942
Pittsburgh, Pa.	Ohio	87	694.27	981.0	19,101	25	46.0	Mar. 18, 1936	1.9	Sept. 28, 1881
Dam No. 7, Midland, Pa.	do.	47	647.20	944.5	22,995	30	53.7	Mar. 18, 1936	.....	.....
Dam No. 12, near Wheeling, W. Va.	do.	48	610.80	893.6	24,661	36	55.2	Mar. 19, 1936	2.7	Aug. 19, 1922
Dam No. 13, McMechen, W. Va.	do.	58	602.80	884.9	25,183	37	57.9	Mar. 19, 1936	2.2	Oct. 15, 1916
Marietta, Ohio:	do.	55	666.84	809.0	35,575	35	55.0	Jan. 26, 1937	7.0	Feb. 3, 1936
Lower gage (Muskingum)	do.	71	562.01	796.6	35,600	36	58.9	Mar. 29, 1913	0.3	Nov. 10, 1894
Parkersburg, W. Va.	do.	42	555.30	788.8	38,053	40	58.0	Jan. 26, 1937	2.7	Nov. 13, 1916
Dam No. 20, near Belleville, W. Va.	do.	42	548.10	778.5	39,342	40	58.6	Jan. 27, 1937	1.3	Aug. 23, 1918
Dam No. 22, Ravenswood, W. Va.	do.	44	536.00	760.1	39,843	44	62.6	Jan. 27, 1937	0.2	Sept. 15, 1919
Point Pleasant, W. Va.	do.	70	514.10	715.8	40,521	40	62.8	Mar. 30, 1913	0.0	Aug. 1, 1911
Gallipolis Dam, Boggett, W. Va.	do.	22	520.00	701.8	53,300	35	52.6	Jan. 27, 1937	.....	.....
Upper gage	do.	22	503.00	701.8	53,300	50	69.6	Jan. 27, 1937	.....	.....
Lower gage	do.	59	490.28	669.4	55,956	50	69.43	Jan. 27, 1937	1.9	Oct. 25, 1922
Dam No. 28, Huntington, W. Va.	do.	42	483.10	661.1	60,748	51	73.6	Jan. 27, 1937	1.4	Oct. 27, 1922
Dam No. 29, Ashland, Ky.	do.	39	475.10	641.6	61,702	52	74.7	Jan. 27, 1937	2.6	Oct. 21, 1920
Dam No. 30, near Greensburg, Ky.	do.	72	470.8	625.4	62,495	50	74.23	Jan. 27, 1937	0.9	Oct. 21, 1920
Portsmouth, Ohio	do.	40	460.10	598.4	69,495	53	75.5	Jan. 27, 1937	3.2	Oct. 22, 1920
Dam No. 32, near Vanceburg, Ky.	do.	38	452.60	575.9	70,130	50	75.34	Jan. 27, 1937	2.8	Nov. 7, 1924
Dam No. 33, near Mayaville, Ky.	do.	38	440.00	530.0	71,032	48	75.1	Jan. 26, 1937	2.1	Nov. 10, 1924
Dam No. 35, New Richmond, Ohio	do.	33	433.60	520.1	71,166	52	79.8	Jan. 26, 1937	2.5	Oct. 30, 1927
Cincinnati, Ohio	do.	101	429.61	510.5	76,580	52	80.0	Jan. 26, 1937	1.9	Sept. 17-19, 1881
Dam No. 37, Fernbank, Ohio	do.	45	425.30	497.8	76,783	50	78.8	Jan. 25, 1937	2.8	Aug. 13, 1911
Dam No. 38, near Grant, Ky.	do.	34	417.80	477.7	82,808	51	78.6	Jan. 26, 1937	5.2	Sept. 1, 1925
Dam No. 39, Markland, Ind.	do.	43	410.60	449.3	83,170	48	73.5	Jan. 26, 1937	0.9	Sept. 4, 1923
Dam No. 41, Louisville, Ky.:	do.	87	403.00	374.2	91,173	28	57.15	Jan. 27, 1937	4.8	Jan. 10, 1926
Upper gage	do.	87	374.00	374.0	91,173	55	85.44	Jan. 27, 1937	4.9	Jan. 30, 1925
Lower gage	do.	36	368.10	347.8	94,483	57	87.0	Jan. 27, 1937	1.3	Sept. 12, 1925
Dam No. 43, Evans Landing, Ind.	do.	39	357.10	317.8	95,702	53	84.2	Jan. 27, 1937	0.5	Sept. 11, 1925
Dam No. 44, Leavenworth, Ind.	do.	31	349.60	278.0	96,369	47	68.9	Jan. 28, 1937	2.8	Nov. 4, 1927
Dam No. 45, Addison, Ky.	do.	36	339.10	223.7	97,270	41	54.8	Jan. 29, 1937	-0.2	July 28, 1926
Dam No. 46, Owensboro, Ky.	do.	38	330.60	203.3	97,787	38	56.6	Jan. 31, 1937	4.1	Oct. 16, 1929
Dam No. 47, Newburgh, Ind.	do.	68	328.70	188.7	107,052	42	53.75	Jan. 31, 1937	-0.3	Nov. 7, 1895
Evansville, Ind.	do.	37	322.60	171.4	107,573	38	58.6	Feb. 1, 1937	1.5	Sept. 11, 1925
Dam No. 48, near Henderson, Ky.	do.	46	318.92	151.8	107,733	35	59.21	Feb. 1, 1937	-0.2	Nov. 26, 1954
Mount Vernon, Ind.	do.	35	312.10	136.0	107,953	37	64.4	Feb. 1, 1937	2.9	Sept. 9, 1925
Dam No. 49, Uniontown, Ky.	do.	35	301.10	104.2	143,112	34	68.3	Feb. 2, 1937	4.4	Sept. 11, 1925
Dam No. 50, Ford's Ferry, Ky.	do.	34	294.60	77.9	143,655	40	62.6	Feb. 2-3, 1937	3.8	Oct. 20, 1929
Dam No. 51, Golconda, Ill.	do.	85	285.96	46.6	202,713	39	60.6	Feb. 2, 1937	-0.7	Oct. 30 - Nov. 4, 1895
Paducah, Ky.	do.	35	283.30	42.1	202,765	37	62.3	Feb. 2-3, 1937	2.7	Sept. 9-12, 1925
Dam No. 52, Brookport, Ill.	do.	35	273.10	18.4	203,154	42	64.0	Feb. 2-3, 1937	5.2	Oct. 28, 1939
Dam No. 53, Grand Chain, Ill.	do.	98	270.62	1.7	203,943	40	59.5	Feb. 3-4, 1937	-1.0	Dec. 24, 1871
White Basin										
Galena, Mo.	James	27	921.37	42.3	987	.....	29.82	May 20, 1943	.....	.....
Gilbert, Ark.	Buffalo	35	545.08	53.7	840	30	42.0	Apr. 15, 1945	2.3	Aug. 11, 1936
Poplar Bluff, Mo.	Black	36	517.40	210.9	1,245	16	21.1	Mar. 12, 1935	1.29	Nov. 6, 1953
Black Rock, Ark.	do.	55	229.56	68.3	7,323	14	31.9	Apr. 21, 1915	0.2	Dec. 9, 1954
Heber Springs, Ark.	Little Red	31	270.75	80.5	1,141	24	250.3	Jan. 25, 1948	.....	.....
Patterson, Ark.	Cache	22	182.96	75.8	1,041	7	16.00	Apr. 19, 1927	1.9	Oct. 24-27, 1931
Beaver, Ark.	White	28	883.04	595.5	1,238	22	42.33	May 12, 1943	1.24	Sept. 19-20, 1954
Calico Rock, Ark.	do.	55	317.44	359.1	9,965	19	51.9	Jan. 31, 1916	-0.70	Sept. 27, 1954
Batesville, Ark.	do.	53	224.98	289.8	11,064	23	43.4	Feb. 1, 1916	3.2	Aug. 31, 1936
Newport, Ark.	do.	69	194.08	237.6	19,812	26	35.9	Apr. 18, 1945	-1.5	Sept. 27-30, 1954
Augusta, Ark.	do.	27	169							





## INDEX BY STATIONS

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Minneapolis, Kans.	Solomon	7	—	Raygold, Oreg.	Rogue	11	—
Minneapolis, Minn.	Mississippi	7	70	Reading, Pa.	Schuylkill	5	31
Modridge, S. Dak.	Missouri	7	82	Red Bluff, Calif.	Sacramento	11	160
Moline, Ill.	Rock	7	65	Red River Landing, La.	Mississippi	10	144
Moncure, N. C.	Cape Fear	6	43	Red Wing, Minn.	do	7	71
Monroe, La.	Ouchita	10	136	Resaca, Ga.	Susquehanna—West Branch	5	34
Montague City, Mass.	Connecticut	5	—	Reserve, La.	Oostanaula	6	55
Montezuma, Ga.	Flint	6	52	Rexburg, Idaho	Mississippi	10	144
Montezuma, Ind.	Wabash	9	—	Richmond, Va.	Henry's Fork	11	161
Montgomery, Ala.	Alabama	6	57	Richmond, Va.	Brazos	11	151
Monticello, Miss.	Pearl	7	62	Rio Grande City, Tex.	James	6	39
Montpelier, Ohio	St. Joseph	5	25	Rio Vista, Calif.	Santee	11	156
Montpelier, Vt.	Winouski	5	27	River Falls, Ala.	Sacramento	11	—
Moorhead, Minn.	Red of the North	5	23	Riverside, Tex.	Conecuh	6	54
Morgan City, La.	Atchafalaya	10	146	Riverton, Ind.	Trinity	10	150
Morrilton, Ark.	Arkansas	10	133	Riverton, Va.	Shenandoah	5	38
Morris, Ill.	Illinois	7	68	Rochester, N. Y.	Genesee	5	26
Mount Carmel, S. C.	Wabash	5	106	Rock Hill, S. C.	Catawba	6	47
Mount Morris, N. Y. (Jones Br.)	Genesee	5	—	Rockdale, N. Y.	Unadilla	5	32
Mount Vernon, Ga.	Oconee	6	50	Rockland, Tex.	Neches	10	148
Mount Vernon, Ind.	Ohio	9	122	Rockwall, Tex.	Trinity—East Fork	10	149
Mount Vernon, Wash.	Skagit	12	169	Rocky Mount, N. C.	Tar	6	41
Mulberry, Ark.	Big Mulberry	10	—	Rome, Ga.	Constantia	5	38
Muncie, Ind.	White	8	—	Roseburg, Oreg.	South Umpqua	11	—
Murfreesboro, Ky.	Green	8	101	Rosser, Tex.	Trinity	10	—
Muscataine, Iowa	Mississippi	7	73	Sacramento, Calif.	Sacramento	11	160
Naples, Tex.	Sulphur	10	138	Saginaw, Mich.	Saginaw	5	25
Nashville, Tenn.	Cumberland	9	107	St. Charles, Ark.	White	9	127
Natchez, Miss.	Mississippi	10	143	St. Charles, Mo.	Missouri	10	85
Nebraska City, Nebr.	Missouri	7	84	St. Francis, Ark.	St. Francis	10	140
Nesley, Idaho	Snake	11	162	St. Helena, Oreg.	Columbia	12	168
Neillsville, Wis.	Black	7	64	St. John, Calif.	Stony Creek	11	—
Neuse, N. C.	Neuse	6	42	St. Joseph, Mo.	Missouri	8	84
New Braunfels, Tex.	Guadalupe	11	—	St. Louis, Mo.	Mississippi	7	74
Newburgh, Ind.	Ohio	9	—	St. Louis, Mo.	St. Louis	8	84
Newcomertown, Ohio	Tuscarawas	8	80	St. Paul, Minn.	St. Paul	7	70
New Harmony, Ind.	Ohio	10	106	St. Regis, Mont.	Clark Fork	11	—
New Madrid, Mo.	Mississippi	10	142	St. Thomas, Mo.	Osaage	7	81
New Orleans, La.	do	10	145	Salem, Oreg.	Willamette	12	166
Newport, Ark.	White	9	126	Salida, Colo.	Arkansas	10	—
Newport, Pa.	Juniata	5	35	Salina, Kans.	Smoky Hill	11	77
New Richmond, Ohio	Ohio	9	118	Salmon, Idaho	Salmon	11	161
Newton, Ala.	Choctawhatchee	6	54	Salmon, N. Mex.	Pecos	11	154
Nicolaus, Calif.	Feather	11	160	Sarah, Miss.	Coldwater	10	141
Nobleville, Ind.	White	8	103	Savannah, Tenn.	Tennessee	9	112
Norcross, Ga.	Chattahoochee	6	52	Scandia, Kans.	Republican	7	—
Norris Dam, Tenn. (Headwater)	Clinch	9	110	Schenectady, N. Y.	Mohawk	5	30
North Platte, Nebr.	North Platte	7	76	Scho, N. Y.	Genesee	5	—
do	South Platte	7	76	Schoharie, N. Y.	Albany	5	—
North Stratford, N. H.	Connecticut	5	—	Seymour, Ind.	White—East Fork	8	102
Norwood, N. C.	Rocky	10	130	Sherburne, N. Y.	Chenango	5	33
Oklahoma City, Okla.	Canadian	10	130	Shoals, Ind.	White—East Fork	8	102
Old Town Bay, La.	Calcasieu	10	—	Shreveport, La.	Red	10	139
Olean, N. Y.	Allegheny	8	86	Shubuta, Miss.	Chickasawhay	6	61
Omaha, Nebr.	Missouri	7	83	Shubuta, Miss.	Miami	8	98
Orange, Tex.	Sabine	10	148	Shuport, La.	Atchafalaya	10	146
Orangeburg, S. C.	Edisto—North Fork	12	166	Sioux City, Iowa	Missouri	7	83
Oregon City, Oreg.	Willamette	12	166	Smithfield, N. C.	Neuse	6	42
Osceola, Mo.	Osaage	7	81	Smithville, Tex.	Colorado	11	152
Oswego, Kans.	Neosho	10	—	Snohomish, Wash.	Snohomish	12	169
Osawatomie, Kans.	Marais des Cygnes	7	80	South Newbury, Vt.	Connecticut	5	—
Ottawa, Kans.	do	7	80	Spalding, Idaho	Clearwater	11	162
Ottawa, Iowa	Des Moines	7	67	Spencer, Ind.	White	8	103
Oswanboro, Ky.	Ohio	10	122	Spokane, Wash.	Spokane	11	161
Ozark, Ark.	Arkansas	9	133	Spreckels, Calif.	Salinas	11	—
Paducah, Ky.	Ohio	9	124	Spring Bank, Ark.	Red	10	—
Pagosa Springs, Colo.	San Juan	11	157	Springfield, Mass.	Connecticut	5	29
Painville, Ky.	Lewins Fork	8	94	Springfield, Ohio	Mad.	8	97
Parkersburg, W. Va.	Ohio	9	115	St. Paul, Minn.	Potomac—South Branch	12	138
Parker, Pa.	Allegheny	10	140	Sullivan, Mo.	Meramec	7	69
Parkin, Ark.	St. Francis	9	—	Sunbury, Pa.	Susquehanna	5	37
Patterson, Ark.	Catche	10	137	Suteraville, Pa.	Youghiogheny	8	88
Pauls Valley, Okla.	Washita	10	137	Svan Lake, Miss.	Tallahatchie	10	141
Pearl River, La.	Pearl	7	63	Tarboro, N. C.	Tar	6	41
Peedee, S. C.	Pee Dee	6	45	Tarheel, N. C.	Cape Fear	6	43
Pelzer, S. C.	Saluda	6	45	Terrill, Ind.	Wabash	12	168
Pennacook, N. H.	Contoocook	28	—	The Dalles, Oreg.	Columbia	12	168
Pennington, Ala.	Tombigbee	6	80	Tiffin, Ohio	Sandusky	5	26
Peoria, Ill.	Illinois	7	68	Tipp City, Ohio	Miami	8	—
Perkins, Okla.	Cimarron	9	128	Topeka, Kans.	Kansas	7	79
Perryville, Tenn.	Tennessee	9	112	Towanda, Pa.	Susquehanna	5	36
Peru, Ind.	Wabash	8	104	Tracy, Iowa	Des Moines	7	67
Petersburg, Ind.	White	8	104	Trenton, Mo.	Thompson Fork	7	79
Philadelphia, Pa.	Schuylkill	5	—	Trenton, N. J.	Delaware	5	32
Philippi, W. Va.	Tygart	8	87	Tribe Hill, N. Y.	Mohawk	5	30
Pierre, S. Dak.	Missouri	7	83	Trinidad, Tex.	Trinity	10	149
Pikeville, Ohio	Scioto	8	96	Tulsa, Okla.	Arkansas	10	132
Pikeville, Ky.	Lewins Fork	8	94	Tuscaloosa, Lock and Dam, Ala.	Black Warrior	6	58
Pine Bluff, Ark.	Arkansas	10	134	Umatilla, Oreg.	Columbia	12	168
Piqua, Ohio	Wine	8	98	Unadilla, N. Y.	Susquehanna	5	35
Pittsburgh, Pa.	Ohio	9	113	Union, Mo.	Bourbeuse	7	69
Pleasant Hill, Ohio	Stillwater	8	97	Uniontown, Ky.	Ohio	9	123
Plymouth, N. H.	Pemigewasset	5	28	Upper Sandusky, Ohio	Sandusky	5	26
Point Pleasant, W. Va.	Ohio	9	116	Valley Junction, Tex.	Brazos	11	151
Pompton Lakes, N. J.	Ramapo	5	—	Valley Park, Mo.	Meramec	7	70
Pompton Plains, N. J.	Pompton	9	123	Van Buren, Ark.	Arkansas	10	139
Poplar Bluff, Mo.	Black	9	—	Vanceburg, Ky.	Ohio	9	—
Portage, Wis.	Wisconsin	7	65	Vancouver, Wash.	Columbia	12	168
Port Jervis, N. Y.	Delaware	5	31	Vandergrift, Pa.	Kiskiminetas	8	86
Portland, Mich.	Grand	5	—	Van Meter, Iowa	Raccoon	7	66
Portland, Oreg.	Willamette	12	167	Vicksburg, W. Va.	Susquehanna	5	36
Portsmouth, Ohio	Ohio	9	117	Victoria, Tex.	Mississippi	7	143
Priest River, Idaho	Wine	11	—	Vincennes, Ind.	Guadalupe	11	153
Prompect, Ohio	Scioto	8	95	Wabash, Ind.	Wabash	9	108
Prompect, Tenn.	Elk	9	110	Waco, Tex.	do	8	104
Pueblo, Colo.	Arkansas	10	—	Wahpeton, N. Dak.	Brazos	11	151
Quenemo, Kans.	Marais des Cygnes	7	—	Wakefield, Kans.	Red of the North	5	23
Quincy, Ill.	Mississippi	7	74	Wamego, Kans.	Republican	7	—
Radford, Va.	Shenandoah	8	92	Wanake, N. J.	Kansas	7	79
Rainbow, Tex.	Brazos	10	132	Wapello, Iowa	Iowa	7	66
Ralston, Okla.	Arkansas	10	132	Warren, Pa.	Allegheny	8	86
Randle, Wash.	Cowlitz	12	167	Warsaw, Mo.	Osaage	7	81
Randolph, Va.	Ronoke	6	40				
Rapidan, Va.	Rapidan	6	—				
Ravenwood, W. Va.	Ohio	9	115				

U.S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

WEATHER BUREAU

F. W. Reichelderfer, Chief

# DAILY RIVER STAGES

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VOLUME LV  
1959

Community Affairs File



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# DAILY RIVER STAGES-1959

1

## INTRODUCTION

This volume, containing the daily river stages for 1959 is the fifty-fifth of a series of Daily River stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

### DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS

#### OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 to 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 to 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 to 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 to 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 to 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947
			XLIV. 1948

#### DAILY RIVER STAGES

Volume XLV. 1949	Volume XLVIII. 1952	Volume LI. 1955
XLVI. 1950	XLIX. 1953	LII. 1956
XLVII. 1951	L. 1954	LIII. 1957
		LIV. 1958

Volumes XLVI to LV can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the Divide.

Important crest stages are noted below the table. Extreme stages for a month may or may not have occurred at the regular time for reading the gage.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table.

In the preparation of this publication the Corps of Engineers of the Department of the Army, the Geological Survey of the Department of the Interior, the Tennessee Valley Authority, and other public as well as private interests have cooperated either by furnishing or assisting in the collection of certain data.

The river and flood forecasting work of the Weather Bureau was directed by the Hydrologic Services Division - - William E. Hiatt, Chief of Division.

The country is served by 90 River District Offices and 10 River Forecast Centers at which the administrative and forecasting work is carried on. The following table shows the location of each of these offices and its area of responsibility.

## RIVER DISTRICT OFFICES, RIVER FORECAST CENTERS, AND THEIR DISTRICTS

River District Offices

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Delaware River tributaries in Pennsylvania southward to and including the Lehigh River Basin.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Ochlockonee and Suwanee Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries, from and including Fort Peck Dam, to the North Dakota-South Dakota State Line except the Milk and Yellowstone; the James River Basin in North Dakota.
Boise, Idaho.....	SNAKE River and tributaries at and above Lewiston, Idaho, including the Clearwater River.
Boston, Mass.....	Charles and Neponset Rivers and other coastal streams of eastern Massachusetts south of the Merrimack River Basin to, and including, the Taunton River Basin.
Brownsville, Tex.....	Rio Grande and tributaries below the Pecos River and the Pecos River in Texas.
Buffalo, N. Y.....	Lake Erie and Lake Ontario drainage area from, but not including, the Genesee River Basin westward to the New York-Pennsylvania State line.
Burlington, Iowa.....	Mississippi River from below Muscatine, Iowa, to, but not including, Dam No. 24 and tributaries, except: the Iowa River above Wapello, Iowa, the Skunk River above Augusta, Iowa, and the Des Moines River above Keosauqua, Iowa.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam 50 at Fords Ferry, Ky., except the Tennessee River at and above Kentucky Dam, and the Cumberland River at and above Barkley Dam. The Mississippi River from Cape Girardeau to New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, Pee Dee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Scioto and Sandusky Rivers and tributaries.
Concord, N. H.....	Merrimack River and tributaries.
Corpus Christi, Tex....	Nueces River and tributaries, including the Gulf drainage between the Nueces and Rio Grande Basins and between the Nueces and Guadalupe (and San Antonio) Basins.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries above North Platte, Nebr.
Des Moines, Iowa.....	Iowa River and tributaries above Wapello, Iowa; Skunk River and tributaries above Augusta, Iowa; Des Moines River and tributaries above Keosauqua, Iowa.
Dodge City, Kans.....	Arkansas River and tributaries from the Colorado-Kansas State line, downstream to and including the mouth of Walnut Creek.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Dam, N. Mex., to but not including the mouth of the Pecos River.
Eureka, Calif.....	California Coast drainage from Point Delgada northward, except the Klamath River and tributaries above the California-Oregon State line.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River at and above Mt. Carmel, Ill., from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries to the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fort Worth, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames River and tributaries; also other coastal rivers in states of Connecticut and Rhode Island to, but not including, the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers and tributaries: Trinity River and tributaries at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 near Apple Grove, Ohio, to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries at and above Mt. Carmel, Ill.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River and tributaries above Bonner Springs, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries at and above Kentucky Dam, except French Broad River and tributaries above North Carolina-Tennessee State line.



## RIVER DISTRICT OFFICES, RIVER FORECAST CENTERS, AND THEIR DISTRICTS

Lake Charles, La.....	Sabine River and tributaries below Logansport, La.; Calcasieu, Mermentau, and Vermillion Rivers and tributaries.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea Basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Macon, Ga.....	Altamaha, Satilla and St. Marys Rivers and tributaries.
Medford, Oreg.....	Oregon Coast drainage southward from and including Umpqua River; the Klamath River and tributaries above the California-Oregon State line; the Great Basin in Oregon except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
Mobile, Ala.....	Tombigbee River and tributaries.
Moline, Ill.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries at and above Barkley Dam.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla....	Canadian River and tributaries east of the eastern boundary of New Mexico and above Whitefield, Okla., Red River and tributaries at and above Denison Dam.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River, except the North Platte and the South Platte above North Platte, Nebr., and excluding the Elkhorn River and Omaha Creek.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 (McMechen, W. Va.) to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries and other coastal drainage between those basins.
Philadelphia, Pa.....	Delaware River and tributaries, except Pennsylvania tributaries southward to and including the Lehigh River and the Schuylkill River above Perkiomen Creek.
Phoenix, Ariz.....	Colorado River and tributaries from, but not including the mouth of the San Juan River, to the Arizona-Mexico border.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13 (McMechen, W. Va.).
Portland, Me.....	Rivers in Maine.
Portland, Oreg.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River and tributaries at and above the mouth of Clearwater River, Oregon Coast drainage north of the Umpqua River Basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Reno, Nev.....	Truckee, Carson, Walker and Susan River Basins.
Richmond, Va.....	James and York Rivers and tributaries.
Rochester, N. Y.....	Genesee River and tributaries.
Sacramento, Calif.....	Sacramento River and tributaries; San Joaquin River and tributaries at and below the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 to, but not including Cape Girardeau, Mo., (except the Osage River and tributaries in Kansas and the Missouri River at and above Jefferson City, Mo.).
Salt Lake City, Utah...	Great Salt Lake Basin, the Sevier and Humboldt River Basins and all other miscellaneous areas of the Great Basin in Utah and Nevada with the exception of the Truckee, Carson, Walker and Susan River Basins.
San Antonio, Tex.....	Guadalupe, San Antonio and Lavaca Rivers and tributaries.
San Francisco, Calif...	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries below Denison Dam to and including Alexandria, La.; the upper Sabine River and tributaries at and above Logansport, La.
Sioux City, Iowa.....	Missouri River and tributaries from the North Dakota-South Dakota State line to and including Sioux City, Iowa, except the James River Basin in North Dakota.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries above Bonner Springs, Kans., Marais des Cygnes (Osage) River and tributaries in Kansas.
Trenton, N. J.....	The Atlantic drainage area between the Hudson and the Delaware River Basins.
Tulsa, Okla.....	Arkansas River and tributaries below the Kansas-Oklahoma State line to and including Van Buren, Ark., except the Canadian River above Whitefield, Okla.

## RIVER DISTRICT OFFICES, RIVER FORECAST CENTERS, AND THEIR DISTRICTS

Vicksburg, Miss..... Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.  
 Washington, D. C..... Potomac and Rappahannock River and tributaries (and local Chesapeake Bay drainage in Maryland and Delaware).  
 Wichita, Kans..... Arkansas River and tributaries above the Kansas-Oklahoma State line to the mouth of Walnut Creek below Great Bend, Kans.

River Forecast Centers

Augusta, Ga..... Southeast River Forecast Center: South Atlantic Coastal Basins south of the Cape Fear Basin to and including the St. Marys River Basin. East Gulf of Mexico drainage from and including Mobile Bay eastward to and including the Suwanee River Basin.  
 River Districts Served: Atlanta, Ga.; Augusta, Ga.; Charleston, S. C.; Columbia, S. C.; Macon, Ga.; Mobile, Ala.; Montgomery, Ala.; and Pensacola, Fla.  
 Cincinnati, Ohio..... Ohio River Forecast Center: Ohio River and tributaries from and including Dam No. 13 (McMechen, W. Va.) to and including Dam No. 50 at Fords Ferry, Ky.; Cumberland River and tributaries at and above Barkley Dam, Ky.; Sandusky River and tributaries.  
 River Districts Served: Cincinnati, Ohio; Columbus, Ohio; Evansville, Ind.; Huntington, W. Va.; Indianapolis, Ind.; Louisville, Ky.; Nashville, Tenn.; and Parkersburg, W. Va.  
 Harrisburg, Pa..... Susquehanna and Delaware River Forecast Center: Susquehanna and Delaware Rivers and tributaries.  
 River Districts Served: Allentown, Pa.; Binghamton, N. Y.; Harrisburg, Pa.; Philadelphia, Pa.; Reading, Pa.  
 Hartford, Conn..... Northeast River Forecast Center: Rivers in New England, Lake Champlain drainage and the Hudson River and tributaries in New York.  
 River Districts Served: Albany, N. Y.; Boston, Mass.; Burlington, Vt.; Concord, N. H.; Hartford, Conn.; Portland, Me.  
 Kansas City, Mo..... Missouri River Forecast Center: Missouri River and tributaries from the headwaters to and including Jefferson City, Mo.; the Marais des Cygnes (Osage) River and tributaries in Kansas.  
 River Districts Served: Billings, Mont.; Bismarck, N. Dak.; Denver, Colo.; Helena, Mont.; Kansas City, Mo.; Norfolk, Nebr.; Omaha, Nebr.; Sioux City, Iowa; Topeka, Kans.  
 Knoxville, Tenn..... Tennessee Valley River Forecast Unit: Tennessee River and tributaries.  
 River Districts Served: Asheville, N. C.; Knoxville, Tenn.  
 Portland, Oreg..... North Pacific River Forecast Center: Columbia River Basin; North Pacific Coastal Basins southward to Point Delgada in Calif.; Great Basin in Oregon.  
 River Districts Served: Boise, Idaho; Medford, Oreg.; Portland, Oreg.; Seattle, Wash.; Spokane, Wash.; Eureka, Calif.  
 St. Louis, Mo..... Upper Mississippi River Forecast Center: Mississippi River and tributaries from headwaters to and including New Madrid, Mo.; the Missouri River and tributaries below Jefferson City, Mo. (except the Marais des Cygnes (Osage) River and tributaries in Kansas); the Ohio River and tributaries below Dam No. 50, Fords Ferry, Ky., (except the Cumberland River at and above Barkley Dam, and the Tennessee River at and above Kentucky Dam); the Red River of the North and tributaries to Canadian line.  
 River Districts Served: Burlington, Iowa; Cairo, Ill.; Des Moines, Iowa; Fargo, N. Dak.; Minneapolis, Minn.; Moline, Ill.; St. Louis, Mo.  
 Tulsa, Okla..... Arkansas and Red River Forecast Center: Arkansas River and tributaries below the Kansas-Colorado line, except the Canadian River in New Mexico, Red River and tributaries to and including Fulton, Ark.  
 River Districts Served: Dodge City, Kans.; Little Rock, Ark.; Oklahoma City, Okla.; Tulsa, Okla.; Wichita, Kans.; Shreveport, La.  
 Washington, D. C..... Middle Atlantic River Forecast Unit: Potomac, Rappahannock, James and York Rivers and tributaries (and local Chesapeake Bay drainage in Maryland and Delaware).  
 River Districts Served: Richmond, Va.; Washington, D. C.



## RIVER STATIONS AND MISCELLANEOUS INFORMATION

(River stations, arranged by drainage area, and miscellaneous information pertaining thereto)

Station	River	Length of record <sup>1</sup>	Elevation of gage zero above mean sea level <sup>2</sup>	Distance of gage above mouth of river <sup>3</sup>	Drainage area above gage <sup>4</sup>	Flood stage	Highest stages from gage readings <sup>5</sup>			
							Highest Prior to 1959	Date	Highest During 1959	Date
MISSISSIPPI SYSTEM--Continued							Feet		Feet	
Missouri Basin--Continued							Feet		Feet	
St. Joseph, Mo.	Missouri	88	788.19	460.3	424,340	17	27.2	Apr. 29, 1881	18.0	May 31
Kansas City, Mo.	do.	87	716.40	377.5	489,162	22	36.20	July 14, 1931	16.7	June 1
Waverly, Mo.	do.	66	646.00	297.2	491,230	18	28.20	July 14, 1931	18.65	June 1
Boonville, Mo.	do.	86	565.42	196.7	505,710	21	32.82	July 17, 1931	21.54	June 2
Jefferson City, Mo.	do.	81	519.71	143.1	507,525	23	34.20	July 18, 1931	21.35	June 3
Hermann, Mo.	do.	87	481.50	96.9	528,200	21	33.05	July 19, 1931	21.30	June 3
St. Charles, Mo.	do.	85	413.59	28.1	529,190	25	37.30	July 20, 1931	24.5	June 4
Ohio Basin										
Vandergrift, Pa.	Kiskiminetas	25	769.40	11.9	1,825	25	25.70	Mar. 31, 1940	13.5	Jan. 25
Olean, N. Y.	Allegheny	37	1,401.12	259.0	1,137	10	17.5	Mar. 8, 1956	18.0	Jan. 22
Warren, Pa.	do.	75	1,168.80	191.7	3,134	14	18.3	Mar. 8, 1956	16.5	Jan. 22
Franklin, Pa.	do.	55	855.92	126.4	5,982	17	26.0	Feb. 27, 1917	20.58	Jan. 21
Parker, Pa.	do.	75	845.14	85.0	7,671	20	27.85	Mar. 5, 1934	29.60	Jan. 21
Lock No. 3, Acmetonia, Pa. (Upper gage)	do.	25	722.72	14.7	11,517	20	K35.3	Mar. 18, 1936	23.9	Jan. 22
Elkins, W. Va.	Tygart	11	1,801.65	86.0	2,667	17	18.8	Oct. 16, 1934	14.9	Jan. 22
Philippi, W. Va.	do.	41	1,280.55	46.0	916	17	24.1	Oct. 16, 1934	16.7	Jan. 22
Weston, W. Va.	West Fork	57	993.84	69.0	133	17	25.5	June 25, 1950	13.0	Jan. 20
Confluence, Pa.	Youghiogheny	87	1,302.77	67.0	1,029	12	K21.6	Mar. 17, 1936	10.2	Feb. 10
Connellsville, Pa.	do.	52	860.13	45.0	1,326	16	21.96	Oct. 16, 1934	8.7	Feb. 11
Sutersville, Pa.	do.	44	733.36	13.5	1,715	20	K32.5	Oct. 16, 1934	14.5	Feb. 11
Lock No. 15, Hault, W. Va. (Upper gage)	Monongahela	36	849.58	124.2	2,368	18	21.2	Jan. 2, 1919	13.1	Jan. 21
Lock No. 7, Greensboro, Pa. (Upper gage)	do.	72	787.50	84.8	4,407	23	29.1	Oct. 16, 1934	19.8	Jan. 22
Lock No. 4, Charleroi, Pa. (Upper gage)	do.	74	723.52	41.5	5,213	24	34.9	Mar. 13, 1907	24.0	Jan. 22
McKeesport, Pa.	do.	47	718.25	14.6	7,161	12	28.8	Mar. 13, 1936	11.6	Jan. 22
Beaver Falls, Pa.	Beaver	52	727.48	5.5	3,106	15	17.4	Mar. 27, 1913	14.4	Jan. 22
Newcomerstown, Ohio	Tuscarawas	32	780.00	21.1	2,436	.....	L21.25	Aug. 9, 1935	9.9	Jan. 22
Zanesville, Ohio	Muskingum	69	665.00	76.8	6,844	25	51.8	Mar. 28, 1913	30.7	Jan. 22
McConnellsville, Ohio	do.	47	640.31	49.6	7,411	21	33.5	Mar. 27, 1913	18.5	Dec. 14
Glenview, W. Va.	Little Kanawha	59	697.79	103.0	3,866	23	33.6	Nov. 16, 1926	19.6	Jan. 21
Creston, W. Va.	do.	59	621.71	48.1	1,235	20	33.2	Apr. 17, 1939	17.6	Jan. 22
Athens, Ohio	Hocking	44	615.59	31.7	944	17	23.0	Mar. 7, 1945	19.4	Jan. 23
Camden on Gauley, W. Va.	Gauley	44	2,003.28	71.0	236	23	19.42	July 19, 1934	12.5	Jan. 22
Galax, Va.	New	18	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	10.4	Sept. 30
Radford, Va.	do.	64	1,712.36	145.0	2,748	14	35.86	Aug. 14, 1940	18.63	Oct. 1
Glenlyn, Va.	do.	34	1,489.76	95.0	3,768	15	27.5	Aug. 14, 1940	14.8	Oct. 1
Hinton, W. Va.	do.	73	1,356.44	53.4	6,257	14	20.2	Sept. 13, 1878	5.8	Jan. 23
Clay, W. Va.	Elk	45	676.60	63.2	1,016	18	32.4	Mar. 14, 1918	13.0	Jan. 22
Kanawha Falls, W. Va.	Kanawha	46	623.20	95.0	8,367	25	29.6	Aug. 15, 1940	10.6	Jan. 23
London Dam, London, W. Va.	do.	26	581.00	82.8	8,552	43	40.9	Aug. 15, 1940	18.0	Jan. 23
Charleston, W. Va.	do.	87	548.00	54.4	10,419	.....	48.9	Mar. 5, 1899	25.7	Jan. 23
Logan, W. Va.	Guyandot	38	639.08	81.4	859	20	K28.23	Jan. 30, 1937	11.5	Jan. 23
Kermitt, W. Va.	Tug Fork	29	574.77	35.5	1,268	38	45.95	Jan. 30, 1937	26.8	Apr. 14
Pikeville, Ky.	Levisa Fork	52	633.18	88.5	1,237	36	52.72	Jan. 30, 1937	24.6	Apr. 13
Paintsville, Ky.	do.	32	566.84	38.5	2,143	40	45.92	Jan. 31, 1937	23.8	Apr. 14
Louisa, Ky.	Big Sandy	71	512.81	26.6	3,870	45	52.61	Mar. 2, 1955	30.6	Apr. 15
Delaware, Ohio	Olentangy	50	848.58	26.2	415	9	25.5	Mar. 25, 1913	10.2	Jan. 21
La Rue, Ohio	Scioto	44	910.19	196.2	255	11	15.0	Mar. 20, 1927	16.0	Jan. 22
Prospect, Ohio	do.	53	891.93	175.2	527	12	17.0	Mar. 22, 1927	17.57	Jan. 23
Columbus, Ohio	do.	53	700.03	131.8	1,613	22	L22.9	Mar. 25, 1913	16.2	Jan. 21
Circleville, Ohio	do.	58	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	26.17	Jan. 22
Chillicothe, Ohio	do.	52	594.02	70.4	3,847	16	39.8	Mar. 26, 1913	32.50	Jan. 23
Pikeston, Ohio	do.	17	531.39	35.0	5,824	16	28.8	Mar. 7, 1945	32.56	Jan. 28
Kings Mills, Ohio	Little Miami	47	587.10	31.2	1,048	17	26.77	Apr. 20, 1940	31.80	Jan. 22
Cynthiana, Ky.	South Fork Licking	43	688.52	46.0	615	20	23.3	Apr. 13, 1948	18.1	Jan. 21
Farmers, Ky.	Licking	44	646.55	172.0	826	25	31.1	Feb. 9, 1918	19.8	Jan. 22
Falmouth, Ky.	do.	73	511.16	51.2	2,320	13	41.8	Apr. 14, 1948	29.6	Jan. 22
Pleasant Hill, Ohio	Stillwater	44	846.55	29.2	562	13	17.5	Jan. 14, 1937	18.0	Jan. 21
Springfield, Ohio	Mad.	45	881.42	23.6	485	11	15.1	Feb. 26, 1929	15.88	Jan. 22
Brookville, Ind.	Whitewater	42	595.71	27.0	1,239	20	25.56	Feb. 26, 1929	27.8	Jan. 21
Sidney, Ohio	Miami	46	924.65	134.8	545	12	14.4	Mar. 20, 1927	14.10	Jan. 22
Piqua, Ohio	do.	49	844.00	122.1	842	17	29.1	Mar. 25, 1913	14.8	Jan. 21
Pipp City, Ohio	do.	37	786.77	104.5	1,016	27	13.8	Mar. 21, 1927	14.6	Jan. 22
Dayton, Ohio	do.	67	721.01	61.3	2,137	21	31.7	Mar. 25-26, 1913	15.4	Jan. 22
Miamisburg, Ohio	do.	37	678.44	68.6	2,718	22	20.6	Jan. 22, 1937	17.4	Jan. 22
Franklin, Ohio	do.	37	658.41	61.3	2,780	16	16.7	Jan. 22, 1937	17.6	Jan. 21
Middletown, Ohio	do.	37	626.00	53.6	3,162	14	17.5	Feb. 27, 1929	19.18	Jan. 21
Hamilton, Ohio	do.	50	580.00	35.3	3,639	17	43.1	Mar. 26, 1913	21.60	Jan. 21
Hazard, Ky.	No. Fork Kentucky	35	838.76	106.2	466	20	37.54	Jan. 29, 1937	17.9	Jan. 22
Jackson, Ky.	do.	32	697.67	49.8	1,101	29	43.1	Feb. 4, 1939	22.3	Jan. 22-23
Lock No. 14, Heidelberg, Ky.	Kentucky	42	625.8	249.0	2,637	30	35.6	Feb. 4, 1939	19.2	Jan. 23
Lock No. 10, Ford, Ky.	do.	57	556.7	176.4	3,955	25	35.1	Mar. 2, 1939	18.2	Jan. 24
Lock No. 7, Highbridge, Ky.	do.	59	503.9	117.0	5,036	30	42.2	Jan. 23, 1937	19.8	Jan. 24
Lock No. 4, Frankfort, Ky.	do.	71	482.1	65.0	5,412	31	47.46	Jan. 25, 1937	20.2	Jan. 22
Bowling Green, Ky.	Barren	36	408.83	37.6	Q1,848	28	44.63	Mar. 24, 1952	28.1	Jan. 23
Dundee, Ky.	Rough	20	393.18	62.5	752	25	29.0	Jan. 14, 1950	27.4	Jan. 23
Munfordsville, Ky.	Green	35	451.70	223.0	Q1,673	28	50.4	Jan. 23, 1937	31.3	Jan. 23
Lock No. 8, Brownsville, Ky.	do.	73	403.26	180.6	Q2,762	28	54.7	Jan. 24, 1937	33.4	Jan. 24
Lock No. 4, Woodbury, Ky.	do.	61	373.80	149.5	5,446	33	59.0	Jan. 24, 1937	39.2	Jan. 24
Lock No. 2, Calhoun, Ky. (Upper gage)	do.	61	354.4	62.8	Q7,564	23	43.62	Jan. 31, 1937	27.6	Jan. 20
Danville, Ill.	Vermillion	45	503.33	19.7	1,280	18	28.99	Mar. 13, 1939	26.80	Feb. 11
Crawfordsville, Ind.	Sugar Creek	20	637.76	39.2	509	8	14.48	June 29, 1957	10.97	Feb. 10
St. Marie, Ill.	Embarras	50	446.75	47.2	1,540	18	25.54	June 30, 1957	20.42	Feb. 12
Bowling Green, Ind.	Bel.	29	548.02	38.8	844	17	23.53	Jan. 4, 1950	20.08	Jan. 22
Columbus, Ind.	East Fork White	32	603.12	162.0	1,692	12	15.12	Jan. 28, 1952	13.40	Jan. 22
.....do.	do.	32	550.67	167.6	2,333	14	19.14	Jan. 28, 1952	19.39	Jan. 22
Bedford, Ind.	do.	21	469.20	93.0	4,080	20	32.7	Jan. 8, 1950	32.80	Jan. 25
Williams, Ind.	do.	39	472.56	79.2	4,690	10	25.0	Jan. 25, 1937	21.0	Jan. 26
Shoals, Ind.	do.	52	442.25	56.1	4,954	25	42.2	Mar. 28, 1913	32.07	Jan. 27
Muncie, Ind.	White	36	920.10	304.8	242	8	18.07	Jan. 15, 1927	11.78	Jan. 22
Anderson, Ind.	do.	49	825.02	285.7	401	10	23.6	Mar. 25, 1913	18.86	Jan. 22
Noblesville, Ind.	do.	49	738.18	262.0	1,637	14	30.1	May 19, 1943	16.87	Jan. 23
Indianapolis, Ind. (Morris Street)	do.	49	662.26	235.8	1,627	16	K30.0	Mar. 26, 1913	14.4	Jan. 22
Spencer, Ind.	do.	34	526.04	165.9	2,980	14	23.2	Jan. 16, 1937	21.12	Jan. 23
Elliston, Ind.	do.	52	472.94	129.8	4,470	1				

## DAILY RIVER STAGES

K- CREST 19.75 AT 9:30 PM.  
L- CREST AT 1-3 PM.  
M- CREST 18.42 AT 6 AM.  
N- CREST 25.30 AT 8:30 PM.  
P- CREST 11.87 AT 4 PM.

Q- CREST 11.92 AT 8 PM.  
R- CREST 16.79 MDNT 3RD & 4TH.  
S- 22.24 AT 7 AM.  
T- CREST 20.51 AT 4 AM.  
U- CREST 28.41 AT 9.30 AM.

V- CREST 16.01 AT 3 PM.  
W- CREST 19.95 AT 5 PM.  
X- 25.65 AT 5 PM.  
Y- 25.95 AT 7 AM.  
Z- AT 5 PM.

a- CREST.  
b- CREST 2 AM TO NOON.  
c- AT 7 AM ON 15TH & 16TH.  
d- CREST AT 7 AM.  
ALSO SEE REFERENCE NOTES FOLLOWING CORRIGENDA

WABASH RIVER AT TERRE HAUTE, IND. GAGE ZERO, 445-78 FEET, M.S.L., FLOOD STAGE, 14 FEET.																																	Highest or crest	Date	Lowest	Date		
1950	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
JAN	2.9	3.0	3.4	G 1.8	B 3.2	B 2.0	F 2.7	F 2.9	F 2.9	2.9	2.9	3.1	3.1	3.0	G 3.6	3.7	B 3.0	B 2.7	G 2.4	G 3.0	G 7.1	G 15.9	G 13.1	G 11.5	G 11.3	G 11.3	G 13.5	G 12.5	G 13.9	G 14.2	G 14.3	G 14.3	G 14.3	G 14.3	30+	2.7	7.4	
FEB	G 1.9	G 2.9	G 1.8	G 1.8	G 1.8	G 1.8	G 1.8	G 1.8	G 1.8	13.9	17.5	20.4	23.1	24.6	24.9	24.2	22.7	21.2	20.0	G 18.7	G 17.7	G 16.3	G 14.3	G 12.9	G 13.5	G 13.6	G 13.4	G 12.8	G 12.9	G 12.9	G 12.9	G 12.9	G 12.9	G 12.9	G 12.9	15	7.5	9
MAR	12.0	11.4	10.9	10.5	9.8	10.8	11.3	11.1	12.2	13.0	13.5	13.8	13.9	13.7	14.0	14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	C 14.5	15+7	7.3	27
APR	9.7	10.6	12.0	19.1	13.9	14.5	14.9	14.7	13.2	11.9	11.4	10.7	9.9	8.1	8.5	7.8	7.3	6.8	6.6	7.9	10.3	12.3	12.6	11.4	9.4	8.3	7.7	9.8	14.0	15.3	14.0	15.3	14.0	15.3	14.0	15.3	14.0	15.3
MAY	17.1	19.4	20.6	20.2	19.0	17.7	16.4	16.2	11.0	9.2	8.4	8.2	8.2	8.4	8.5	8.2	8.0	7.1	6.5	6.1	5.9	5.9	6.1	7.4	7.2	7.7	8.3	8.2	7.2	7.6	7.6	6.5	d 20.6	3	5.9	21		
JUN	6.6	5.7	5.4	5.4	5.2	4.8	4.2	4.0	3.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6		
JUL	6.3	5.1	4.3	3.9	3.6	3.4	3.1	3.0	2.8	2.6	2.5	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2		
AUG	2.4	2.2	2.2	2.1	2.1	2.1	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8		
SEP	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		
OCT	2.3	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9		
NOV	2.1	2.1	2.1	2.1	2.2	2.5	2.9	3.2	3.5	3.4	3.1	2.8	2.6	2.9	6.6	7.1	7.8	8.4	7.5	6.3	5.3	4.5	3.9	3.8	3.6	3.4	3.2	3.2	3.2	3.1	2.8	2.8	2.8	2.8	2.8			
DEC	2.8	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.5	4.7	7.2	9.2	8.8	7.6	6.9	5.4	4.5	4.1	3.8	3.5	3.3	3.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2			



## INDEX BY STATIONS

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Minneapolis, Kans.	Solomon	7	84	Havenswood, W. Va.	Ohio	9	129
Minneapolis, Minn.	Mississippi	7	84	Raygold, Oreg.	Rogue	11	---
Mohrville, S. Dak.	Missouri	7	96	Reading, Pa.	Schuylkill	5	44
Moline, Ill.	Rock	7	79	Red Bluff, Calif.	Sacramento	11	173
Moncure, N. C.	Cape Fear	6	57	Red River Landing, La.	Mississippi	10	157
Monroe, La.	Ouachita	10	149	Red Wing, Minn.	do	7	85
Montague City, Mass.	Connecticut	5	---	Renovo, Pa.	Susquehanna—West Branch	5	46
Montezuma, Ga.	Flint	6	66	Rensselaer, Ga.	Costanaula	6	89
Montgomery, Ala.	Alabama	6	71	Reserve, La.	Mississippi	10	157
Monticello, Miss.	Pearl	6	76	Rexburg, Idaho	Henry's Fork	11	174
Montpelier, Ohio	St. Joseph	5	39	Richmond, Tex.	Brazos	10	164
Montpelier, Vt.	Winouski	5	41	Richmond, Va.	James	6	53
Moorhead, Minn.	Red of the North	5	41	Rimini, S. C.	Santee	11	169
Morgan City, La.	Atchafalaya	10	147	Rio Grande City, Tex.	Rio Grande	11	---
Morilton, Ark.	Illinois	7	82	Rio Vista, Calif.	Sacramento	6	68
Morris, Ill.	Wabash	9	120	River Falls, Ala.	Trinity	9	52
Mount Carmel, Ill.	Genesee	5	---	Riverside, Tex.	Wabash	3	40
Mount Morris, N.Y. (Jones Br.)	Oconee	6	64	Riverton, Ind.	Shenandoah	5	46
Mount Vernon, Ga.	Ohio	9	136	Rochester, N. Y.	Catawba	6	61
Mount Vernon, Ind.	Kagit	10	---	Rockdale, N. Y.	Unadilla	10	161
Mount Vernon, Wash.	White	8	115	Rockland, Tex.	Neches	10	162
Mulberry, Ark.	Green	7	87	Rockwall, Tex.	Trinity—East Fork	6	55
Muncie, Ind.	Mississippi	10	151	Rocky Mount, N. C.	Tar	11	---
Munfordville, Ky.	Sulphur	9	121	Rome, Ga.	Costanaula	11	---
Muscatoine, Iowa	Cumberland	10	151	Roseburg, Oreg.	South Umpqua	11	---
Nashville, Tenn.	Mississippi	10	151	Rosmar, Tex.	Trinity	10	---
Natchez, Miss.	Missouri	7	96	Sacramento, Calif.	Sacramento	11	173
Nebraska City, Nebr.	Snake	11	175	Saginaw, Mich.	Saginaw	5	39
Neale, Idaho	Black	7	78	St. Charles, Ark.	White	9	89
Neillsville, Wis.	Neuse	6	56	St. Charles, Mo.	Missouri	10	153
Neuse, N. C.	Guadalupe	10	---	St. Francis, Ark.	St. Francis	11	182
New Braunfels, Tex.	Ohio	9	---	St. Helena, Oreg.	Columbia	11	182
Newburgh, Ind.	Ohio	8	104	St. John, Calif.	Stony Creek	11	---
Newcomerston, Ohio	Wabash	9	120	St. Joseph, Mo.	Missouri	8	98
New Harmony, Ind.	Mississippi	10	155	St. Louis, Mo.	Mississippi	7	88
New Orleans, La.	do	10	158	Ste. Marie, Ill.	Embarras	8	---
Newport, Ark.	White	5	140	St. Paul, Minn.	Mississippi	11	---
Newport, Pa.	Juniata	5	49	St. Regis, Mont.	Clark Fork	7	95
New Richmond, Ohio	Ohio	9	132	St. Thomas, Mo.	Willamette	11	179
Newton, Ala.	Chocowhatchee	6	68	Salem, Oreg.	Arkansas	10	---
Nicolaus, Calif.	Feather	11	173	Salida, Colo.	Smoky Hill	7	91
Nobleville, Ind.	White	8	117	Salmon, Idaho	Salmon	11	174
Norcross, Ga.	Chattahoochee	6	66	Santa Rosa, N. Mex.	Pecos	10	154
Norris Dam, Tenn. (Headwater)	Clinch	9	124	Sarah, Miss.	Coldwater	9	126
North Platte, Nebr.	North Platte	7	90	Savannah, Tenn.	Tennessee	7	---
North Stratford, N. H.	Connecticut	5	---	Scandia, Kans.	Republican	5	44
Norwood, N. C.	Rocky	6	---	Schenectady, N. Y.	Genesee	5	---
Oklahoma City, Okla.	North Canadian	9	144	Scio, N. Y.	Alabama	6	72
Old Town Bay, La.	Calcasieu	10	---	Selma, Ala.	White—East Fork	8	116
Olean, N. Y.	Allegheny	8	100	Seymour, Ind.	Chesapeake	11	183
Omaha, Nebr.	Missouri	7	97	Sherburne, N. Y.	Shoshone	11	175
Orange, Tex.	Sabine	10	161	Shoals, Ind.	Clearwater	8	117
Orangeburg, S. C.	Edisto—North Fork	6	51	Shubuta, Miss.	Spokane	11	174
Oregon City, Oreg.	Willamette	11	180	Shreveport, La.	Salinas	11	---
Oswego, Mo.	Osage	7	95	Sidney, Ohio	Connecticut	5	43
Oswego, Kans.	Neosho	9	---	Simmesport, La.	Mad.	5	111
Oswatimie, Kans.	Marais des Cygnes	7	94	Sioux City, Iowa	Potomac—South Branch	7	83
Ottawa, Kans.	do	7	94	Smithfield, N. C.	Susquehanna	5	51
Ottawa, Iowa	Des Moines	9	136	Smithville, Tex.	Youghiogheny	8	102
Owensboro, Ky.	Arkansas	10	146	Spokane, Wash.	Tallahatchie	10	154
Ozark, Ark.	Ohio	9	138	Spalding, Idaho	Tar	6	35
Paducah, Ky.	San Juan	11	170	Spencer, Ind.	Cape Fear	5	37
Pagosa Springs, Colo.	Lewis Fork	8	106	Spokane, Wash.	Wabash	8	119
Paintsville, Ky.	Ohio	9	129	Spreckels, Calif.	Columbia	11	181
Parkersburg, W. Va.	Allegheny	9	129	Springfield, Mass.	Sandusky	5	40
Parker, Pa.	Allegheny	10	101	Springfield, Ohio	Miami	8	---
Parkin, Ark.	St. Francis	10	153	Springfield, W. Va.	Kansas	7	93
Patterson, Ark.	Catche	9	---	Sullivan, Mo.	Susquehanna	10	146
Pauls Valley, Okla.	Washita	10	160	Sunbury, Pa.	Des Moines	7	81
Pearl River, La.	Pearl	7	77	Sutersville, Pa.	Thompson Fork	5	46
Peedee, S. C.	Pee Dee	6	59	Swan Lake, Miss.	Delaware	7	93
Pelzer, S. C.	Saluda	6	59	Tarboro, N. C.	Mohawk	5	44
Pennacook, N. H.	Contoocook	42	5	Tarboro, N. C.	Trinity	10	162
Pennington, Ala.	Tombigbee	6	74	Tarheel, N. C.	Arkansas	10	146
Perrine, Ill.	Illinois	7	82	Tarheel, N. C.	Black Warrior	6	72
Perrine, Okla.	Cimarron	9	142	The Dallas, Oreg.	Columbia	11	181
Perryville, Tenn.	Tennessee	9	---	Tiffin, Ohio	Bourbeuse	7	83
Peru, Ind.	Wabash	8	118	Tipp City, Ohio	Ohio	9	137
Petersburg, Ind.	White	8	118	Topeka, Kans.	Sandusky	5	40
Philadelphia, Pa.	Schuylkill	5	45	Towanda, Pa.	Brazos	10	164
Phillippi, W. Va.	Tygart	8	101	Tracy, Iowa	Wassaw	7	84
Pierre, S. Dak.	Missouri	7	97	Trenton, Mo.	Arkansas	10	146
Piketon, Ohio	Scioto	8	110	Tribe Hill, N. Y.	Ohio	9	181
Pikeville, Ky.	Lewis Fork	8	108	Trinidad, Tex.	Wabash	8	118
Pine Bluff, Ark.	Arkansas	10	147	Tulsa, Okla.	do	10	164
Piqua, Ohio	Miami	8	112	Tuscaloosa Lock and Dam, Ala.	Red of the North	5	35
Pittsburgh, Pa.	Ohio	9	127	Umatilla, Oreg.	Republican	7	---
Pleasant Hill, Ohio	Stillwater	8	111	Unadilla, N. Y.	Kansas	7	93
Plymouth, N. H.	Pemigewasset	5	42	Unadilla, N. Y.	Wanaque	5	---
Point Pleasant, W. Va.	Ohio	9	130	Unadilla, N. Y.	Iowa	8	100
Pompton Lakes, N. J.	Ramapo	5	---	Unadilla, N. Y.	Allegheny	8	100
Pompton Plains, N. J.	Pompton	5	---	Unadilla, N. Y.	Osage	7	95
Poplar Bluff, Mo.	Blacks	9	139	Unadilla, N. Y.	do	7	95
Portage, Wisconsin	Wisconsin	7	79	Unadilla, N. Y.	do	7	95
Port Jervis, N. Y.	Delaware	5	43	Unadilla, N. Y.	do	7	95
Portland, Mich.	Grand	5	---	Unadilla, N. Y.	do	7	95
Portland, Oreg.	Willamette	11	180	Unadilla, N. Y.	do	7	95
Portsmouth, Ohio	Ohio	9	131	Unadilla, N. Y.	do	7	95
Priest River, Idaho	Priest	11	---	Unadilla, N. Y.	do	7	95
Prospect, Wis.	Scioto	8	---	Unadilla, N. Y.	do	7	95
Prospect, Tenn.	Elk	9	124	Unadilla, N. Y.	do	7	95
Pueblo, Colo.	Arkansas	10	---	Unadilla, N. Y.	do	7	95
Quenemo, Kans.	Marais des Cygnes	7	---	Unadilla, N. Y.	do	7	95
Quincy, Ill.	Mississippi	7	88	Unadilla, N. Y.	do	7	95
Radford, Va.	New	8	106	Unadilla, N. Y.	do	7	95
Rainbow, Tex.	Brazos	10	163	Unadilla, N. Y.	do	7	95
Ralston, Okla.	Arkansas	10	45	Unadilla, N. Y.	do	7	95
Randia, Wash.	Cowlitz	11	180	Unadilla, N. Y.	do	7	95
Randolph, Va.	Roanoke	6	54	Unadilla, N. Y.	do	7	95
Rapidan, Va.	Rapidan	6	---	Unadilla, N. Y.	do	7	95